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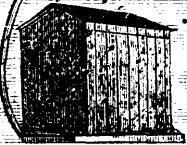
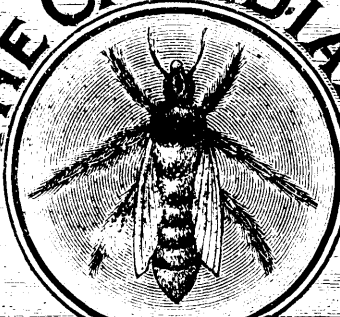
VOL. IV, NO. 46

1889

FEBRUARY 6

PUBLISHED EXCLUSIVELY IN THE INTERESTS OF THE HONEY PRODUCER

THE CANADIAN



JOURNAL

THE FIRST \$ WEEKLY IN THE WORLD

ONE DOLLAR PER YEAR

THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER

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BEECHER ONT.

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- FOUL BROOD, ITS MANAGEMENT AND CURE by D. A. Jones. Price, 11c. by mail; 10c. otherwise.
- A. B. C. IN CARP CULTURE, by A. I. Root, in paper 50c.
- 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.

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See advertisement on another page. We have just arranged for the sale of these machines, and we can quote a price F.O.B cars at Toronto (duty and freight paid thereto). On application we will forward catalogue and pricelist free.

THE D. A. JONES Co., LD., Beeton Ont.

PUBLISHERS' NOTES.

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.

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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 everyone, 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, \$1.00 per Annum. Postage free for Canada and the United States; to England, Germany, etc. 10 cents per year extra; and to all countries not in the postal Union, \$1.00

The number on each wrapper or address-label will show the expiring number of your subscription, and by comparing this with the Whole No. on the JOURNAL you can ascertain your exact standing.

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Space measured by a scale of solid nonpareil of which there are twelve lines to the inch, and about nine words to each line.

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THE CANADIAN BEE JOURNAL

AND "Gleanings," semi-monthly.....	\$1.75
" " "American Bee Journal," weekly.....	1.75
" " "American Apiculturist," monthly.....	1.75
" " "Bee-Keepers' Magazine," monthly.....	1.40
" " "Bee-Keeper's Guide," monthly.....	1.40
" " "Rays of Light".....	1.20
" " "The Bee-Hive".....	1.25
" " "Beekeepers' Review".....	1.40
" " "Beekeepers' Advance".....	1.30

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 sending 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 know it, tell them through the medium of the JOURNAL.

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## PRICES CURRENT

### BEESWAX

Beeton, Feb. 6, 1889,  
We pay 33c 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.

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Brood Foundation, cut to any size per pound.....50c  
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Section Foundation cut to fit 3 1/2 x 4 1/2 and 4 1/2 x 4 1/2, per lb. 60c  
Brood Foundation, starters, being wide enough for Frames but only three to ten inches deep.....48c

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L. P. THURSTON & CO.,  
Empire Nurseries, Rochester, N. Y.

# BEE HIVES!

The special topic of THE BEE-KEEPERS' REVIEW for January is "Bee Hives." Before making hives for another season, learn the views of the leading Bee-keepers upon this important subject. The special topic of the February number will be

### "MISTAKES IN BEE-KEEPING."

Price of the REVIEW is 50 cents a year. Samples free. Back number of can be furnished.

## The Production Of Comb Honey!

is a neat little book of 45 pages. Price 25 cents. This and the REVIEW one year for 65 cents. The book and the REVIEW two years for \$1. Stamps taken, either U. S. and Canadian.

W. Z. HUTCHINSON

613 Wood Street, Flint, Mich.

## BEE SUPPLIES.

Until March 1st, Brood frames \$1 per 100, \$9 per 1000, Section Crates, Feeders, etc., correspondingly low. Send for price List to

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Nickel plated pen and pencil stamp with name etc; Nickel plated stamp with name, 20c; Black wax pen handle with name on, 15c; Your name in rubber or any of the above sent post paid on receipt of price. Clubs amounting to \$1.25 sent for \$1. Boys and girls can make money canvassing for these stamps. Every school boy and girl should have a pen and pencil stamp. It contains a pen, lead pencil and stamp for printing your name on your books, etc. Write your name plainly. Remember you have no duty to pay on these stamps when you deal with us.

Gem Rubber Stamp Co.,  
MALAKOFF, ONT.

# FLORIDA!

Land for Sale in the County of De Soto, Lat. 28° 40'.

Twenty acres of good dry pine land on the Myakka River with over 500 feet of water front, 13 miles from the terminus of the Florida Southern Railway at Punta Gorda, with deep water all the way. Was selected for an apiary, for which it is very suitable, being within easy reach of black mangrove, cabbage and saw palmettoes, and pennyroyal, the great honey plants of Florida. It is also suitable for growing lemons, guavas, pine apples, and all kinds of vegetables. The Myakka is a tidal river running into Charlotte Harbor, and steamers drawing eight feet of water can go right up to the property. At Southland, 13 miles down stream, a large canning establishment is just about starting.

Price for the whole \$12.50 per acre, or in 5 and 10 acre lots, \$15 per acre, cash.

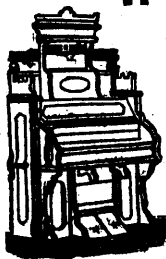
### ALSO

Forty acres of first-class high pine land on Shell Creek; water front; 4 miles from Shell Creek station, 6 miles from Cleveand, and 9 miles from Punta Gorda, all on the Florida Southern Railway, and with water carriage for sail boat to all these places. This land is 15 feet above the creek, rich in phosphates, and will grow oranges and all kinds of citrus fruits without fertilizing. Price per acre for 10 acres and upwards, \$10 cash—a great bargain.

The climate is splendid; heat rarely extends 90° in the summer and very mild in winter, and is exceedingly healthy—no malaria or yellow fever.

Apply to T. E. HECTOR,

Punta Gorda, De Soto County, Florida.



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Note these figures, which include printing.

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Note Heads, good quality.....	\$1 15	\$1 90
"    linen.....	1 25	2 00
Letter Heads, Superfine.....	1 75	2 50
"    Linen.....	2 00	3 25
Envelope, business size, No. 7,		
white.....	1 15	2 00
"    Extra quality.....	1 35	2 25
Business Cards.....	1 50	2 50
Shipping Tags, 40c., 45c. and 50c. per 100.		

Our new book of labels contains nearly 100 specimens of elegant honey labels. Write for prices for any printing required.

THE CANADIAN BEE JOURNAL,

7

BEETON.

EXCHANGE AND MART.

FOR Sale—1 Barnes foot power circular saw, as good as new; price \$40. Also 4 honey tanks, hold 550 lbs each \$2.50 each. Edward Lunau, Burtonville, Ont.

Muth's Honey Extractor.

Perfection Cold Blast Smokers, Square Glass Honey Jars, etc. Send ten cents for "Practical Hints to Bee Keepers." For circulars apply

CHAS. F. MUTH & SON.

Cor. Freeman & Central Avenues, Cincinnati

THE QUEEN BREEDERS' JOURNAL

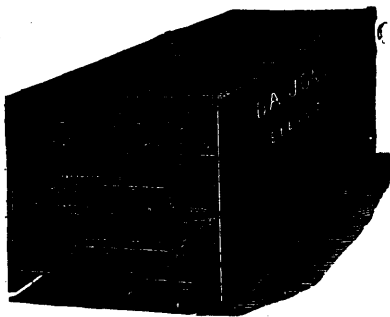
H. L. PRATT, Pub., Marlboro, Mass.

A 16-page Monthly devoted to Queen Breeders and Queen Rearing. Price 60 cents a year. Send your name on postal and receive a sample copy of this bright new journal. Address, The Q. B. Journal, 175 Main St., Marlboro, Mass.

SPLENDID OPPORTUNITY.

FOR SALE in Culloden, County of Oxford, a comfortable Dwelling, Outbuildings and four-fifths of an acre of splendid land, planted with the choicest fruit. In connection there are 60 Hives of Italian Bees with plenty of stores to winter, and everything else for carrying on Bee-keeping. All for Six Hundred Dollars (\$600). Owner leaving, and must sell. One of the best districts for Bee-keeping in Ontario, situated 10 miles from Brownsville station, Michigan Central Railroad. Come and see, or apply to

JOHN A. SALES, Culloden, Ont.



FEEDERS.

FOR PRICES SEE OUR CATALOGUE, WHICH WILL BE SENT FREE TO ANY ADDRESS.

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

THE AMERICAN APICULTURIST

Will be mailed from Oct. 1 1888 to Jan 1 1890 for 75 cts. The editor has had 30 years experience in rearing Queens and practical Bee-keeping, and now proposes to give the result of that long experience in a series of articles in the APICULTURIST. The first Article will appear in the Nov. 1888 issue. The details of a new method of rearing Queens in full colonies, without making the colony queenless, will be given to each subscriber. Send for sample copy Address AMERICAN APICULTURIST, Wenham, Mass.

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  - J. W. PORTER, Charlottesville, Va.
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- and numbers of other dealers. Write for SAMPLES Free and Price List of Bee Supplies. We guarantee every inch of our Foundation equal to sample in every respect. Everyone who buys it is pleased with it.

CHAS. DADANT & SON, HAMILTON, Hancock Co., Ill.



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

VOL. IV. No. 46 BEETON, ONT., FEB. 6, 1889. WHOLE No. 202

EDITORIAL.

OUR Canadian contemporary the Honey Producer has passed the first mile-stone in good style. It has 1300 subscribers which with a most gratifying increase in our own list proves that a disastrous honey season serves to whet the appetite of apiarists for the practical "pointers" supplied by contributors to the bee periodicals. The C. H. P. has our warmest wishes for prosperity.

\* \*

The Annual meeting of the Ontario Agricultural Experimental Union takes place Feb. 7th and 8th at the College, Guelph.

\* \*

In this issue we publish the revised by-laws of the O.B.K.A. They can be obtained in pamphlet form from the Secretary, Mr. Couse.

\* \*

We believe that President Clark and Vice-President Emigh will represent the Bee-Keepers Association at the coming meeting of the Central Farmers' Institute.

\* \*

A writer in the C. B. J. stenuously objects to the placing of hives of bees near the highway. Bees should never be kept near the highway if it can be avoided. To be sure many times every

thing goes along smoothly; but how little it takes to stir up this living volcano, especially if the bee-keeper happens to become a little careless.—*Bee-Hive.*

\* \*

A change has been made in the "make-up" of the *Advance* which now appears as a 32 p.p. journal. A portrait of Editor Mason is given together with a brief autobiography.

\* \*

Shipping, exchanging and trading in virgin queens, will be an increasing business in the near future.—*Bee-Hive.*

FOR THE CANADIAN BEE JOURNAL.

VENTILATION OF HIVES IN WINTER.

M. R. CORNEIL has given an article on "Ventilation of Bee Hives" which puts the matter in a practical shape and should command the attention of all bee-keepers.

The principles are not new, but the application is entirely, so far as I know Mr. Corneil's.

My own opinion inclines to the adoption of a tin pipe to conduct the outside air along the bottom of the hive from entrance No. 2, rather than to use the entrance No. 3, which he suggests simply because in out-door wintering entrance No. 3. would be covered and might give an entrance to the mouse. For in-door wintering an inch block under each corner good ventilation through a chimney, do well in our region. But if one were not satisfied with the blocks, then put in his holes wherever he pleases. But for outside wintering I think tin tubes would be

the thing. These, of course, need be only three-sided, the bottom board forming the fourth.

Now as to the need of top ventilation my observation of the habits of the bees leads me to conclude that they do not like it and do not want it. When the swarm prepares for winter all above is sealed as tight as wax and glue can make it. After all this work has been done to fix up the home for winter we come along and lift up their covers, put on our devices for an upper chamber and our porous quilts and go away congratulating ourselves that we have done a good job for the little fellows. Possibly they know best what they need. We know they need air and warmth. They know they don't want any currents of air on their backs or any drafts. I should not be at all surprised if that air hole which was so useful in the ventilation of Mr. C's friend's bees was all glued tight as a drum before they fairly settled down for winter. My bees will seal up the openings in the zinc of the honey boards which I left over them in place of a Hill's device. Before Mr. C. goes much on that upper tube arrangement he had better find out whether it was not after all a dummy. But the bottom ventilation is wholly in accord with the bees' wishes, as it is wholly in accord with the scientific ventilation of our homes, which is no longer at the ceiling but at the floor. Mr. Ruttan, of Coburg, Ontario, discovered this principle and it is now being applied in ventilation of a large number of public buildings and private dwellings in this country.

By this method drafts are avoided and the heat is around the person and the vitiated air is drawn rapidly out of the house.

What we do for our own houses we may, it seems, by this method of ventilation as worked out by Mr. C., do for the bees. I think he deserves the thanks of the bees for giving a plan which is so much in accord with their own manifested desire to receive all their fresh air from beneath the cluster and so beneath their food, and to keep the upper portion of their home hermetically sealed.

G. A. ADAMS.

Perrysburg, Ohio, Jan. 29th, 1888.

For the CANADIAN BEE JOURNAL.

#### VENTILATION.

**T**HE question of ventilation of bee-hives and special depositories has been discussed to a large extent for several years, but as yet we are no nearer a solution than when the question first began. Now, why is this? The advocates of ventilation assert that direct upward ventilation is the only practical form

that can be used. In advocating this doctrine the disputants are most certainly begging the question. The assumption by them is that the same rules scientifically considered that apply to the human being, apply to the honey bee. Now this may or may not be correct, and theory and practice considered in this direction alone don't seem to "jibe" at all. The doctrine of "hibernation" is not taken into consideration at all. Whether that doctrine is correct or not, when the definition of the word is strictly applied, is not a matter of discussion now; but the doctrine has some force and carries some weight in discussing ventilation.

Have we any proof whatever as yet that bees require the same amount and quality of air, in proportion to human beings, as do the humans to preserve life? Theory seems to say we have, but practice denies it *in toto*.

Again, suppose they do, how can we compare a single bee, or a whole colony even, with one or more humans, as to the amount of oxygen actually required to sustain life for a given period or the amount of nitrogen that should be mixed with it in order to form the right proportions of each? We know the proportion of each necessary to preserve human life, and we know that about that proportion must be constantly kept up. Do we know either positively or approximately how many cubic inches of air are required per day for a colony of bees, or how long a time it will require a colony to exhaust the oxygen from a given quantity of air? One thing we do know—bees will live when the ordinary means of access of air are completely cut off; and the more quiet the colony can be kept the longer will life be sustained under that condition. I am not writing this article to *provoke* discussion, but simply to see if certain differences cannot be harmonized. Philosophical and scientific theories are valuable so far and no further as they form a basis for practical facts, or can be sustained by them. Bees live under all forms of ventilation; the main point is to determine that form which will give us the maximum of safety. In determining this matter it strikes me that theories are of little value, but that results of experiments alone can give us the solution, and that the whole matter rests in the hands of our larger apiarists.

J. E. POWELL.

North Attleboro, Jan. 27, 1889.

COOK'S MANUAL—NEW EDITION.

We have now in stock ready to go by return mail the latest edition of Prof. Cook's Manual. The price this time is \$1.50, postpaid, but the increase in price is most fully compensated for in the increased quantity of matter and the better quality of the work.

For the CANADIAN BEE JOURNAL.

### CORRECTIONS.

**I**N my paper on "Ventilation of Hives" there are several typographical errors which I shall ask you to correct.

On page 866, the first line of the second paragraph in the second column should read "A difference in the temperature of two bodies of air."

In the second line of the last paragraph, same column, the words "between the body and bottom board" should come between "having" and a rim."

A little above the middle of the second column, page 867, the sentence describing the dimensions of a square opening should read thus: "A square opening of the same capacity has less than 10 inches for friction around its margin and less than two and a half inches for friction between the currents.

In the 25th line from the bottom, same column, there should be a full stop after "currents" and the next sentence commencing with "on" runs on till it terminates with "others." In the 21st line from the top page 868, first column "this hive" should be "their hives."

S. CORNEIL.

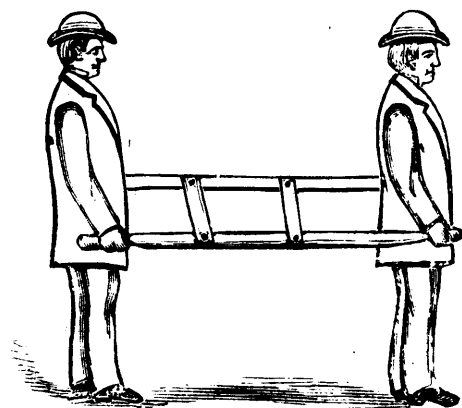
Lindsay, Jan. 25th.

For THE CANADIAN BEE JOURNAL.

### CARRYING BEES INTO THE CELLAR.

**I**T may be somewhat out of season to discuss this subject now, but any apparatus that is helpful in carrying bees into the cellar, is also as helpful in taking them out again, so possibly there can be no better time than the present to find out the best way of doing this. G. M. Doolittle seems to prefer doing this work alone, and manages it by a strap with hooks at the ends. It is then passed over the shoulders and hooked into the cleats, or hand holes of the hive, thereby lifting the hives by the shoulders, instead of the arms, and with the hands keep the hive away from the body. He also recommends, for those not physically strong, a spring wheel-barrow properly cushioned. Dr. C. C. Miller comes forward in favor of two or more doing this work, claiming the need of help when lifting the hives on each other when in the cellar. He recommends a rope tied together at the ends and long enough to pass around under the cleats of the hive and to form a hold on each side, one man then on each side takes hold and walks along. Two objections I see to this plan are: 1st. All hives have not those cleats referred to. 2nd. Not many doorways would accommodate a

ing behind each other one would need take short steps or be in danger of striking the hives. I think I would prefer having help when carrying bees into the cellar, even though I were not compelled to by having large hives. I do not know however that I would be content to carry only one hive at a time, were mine the ordinary size. The plan I prefer is to have what is known as a hand-barrow. It is simply two pieces of wood (basswood preferred) each being about five feet long and three inches wide by one-and-a-half inches thick, to which are nailed two or four cross strips say two inches wide by three-quarter inch thick, and about eighteen inches long. The ends of the long pieces are then rounded off and made smooth to take hold of and the cross strips are nailed sufficient distance from the ends not to interfere with a person walking. A few folds of canvas or something soft can be tacked on to it. Your hive or hives are then placed on this and can be carried with much greater ease and care than by any other plan. I prefer having two of these hand-barrow. Two



DEADMAN'S HIVE CARRIER.

can then carry as far as the cellar steps and then two more take them into the cellar. There is then not so much strain on the arms as they are rested oftener and the work done in half the time. If the hives are close by and not many of them it would not be worth while having the two, unless when taking them out in the spring, where it is advisable to put them all on their stands as quickly as possible. In case two do the work and there is far to go then take two ropes, or better still two straps, and fasten the two ends of each rope or strap to each of the two handles. They should be long enough to go over the shoulders, so that when the person carrying is standing up erect the handles will be raised a little higher than they would be if held by the hands. With this a hive can be carried



a long distance with very little fatigue. If there are more than two steps leading into the cellar, a good plan is to rest one end of a plank on the third step, and the other end as far in the cellar as you can. This will be the next best to going in on the level. Have a cushion or something soft to rest the hand-barrow on when exchanging at the door (if there are four carrying), or in the cellar before placing the hives in position. No doubt the less jar the better. By this arrangement you can take two ordinary hives in at once, or double that number if nuclei.

(190) G. A. DEADMAN,

Brussels.

For the CANADIAN BEE JOURNAL.

### A Few Corrections of American Apicultural Errors.

#### WAX PRODUCTION.

IN your "Practical" papers on bee-keeping, page 767, you say in all the experiments made to determine how much honey was consumed to make a pound of wax, the bees were not confined to their hives, also that Huber put it at 20 lbs.

If you will carefully read Huber, you will find that he confined his bees something like thirty days, cutting out the comb every five days, only allowing them to fly in a room from which they could not escape, and that he got from coarse sugar made into syrup an average of nearly one-sixth of its weight of wax; or, in other words,  $6\frac{1}{2}$  lbs. of sugar would produce one pound of white wax. This, compared with honey, would place the outside at 8 lbs. of honey to 1 lb. of wax, which, from my observations, is the utmost limit I should place it at.

I once noticed Mr. G. M. Doolittle credit Huber with saying that bees used 20 lbs. of honey to make 1 lb. of wax. It would do this gentleman good to study Huber thoroughly; he would find it very interesting, if only for the fact that his particular method of queen-introduction is mentioned as a plan of M. de Reaumur's.

American bee-keepers are apt to think contemptuously of a *blind* man, who wrote on bees 100 years ago, being able to tell them anything, yet no man has since done as much to enrich our stock of knowledge on bees as he did, even if he was *totally blind*.

#### TEMPERATURE OF BROOD NEST.

I have been much amused at reading American bee papers lately. With what unanimity the different writers quote  $65^{\circ}$  as the correct degree of temperature of the brood nest! I think it was first used in the *Review*, second column, page 74, in reviewing Mr. Cheshire's book.

I will refrain from mentioning the various writers by name who have used it; they can be found in all the trans-Atlantic bee-papers.

The *correct* temperature of the brood-nest is  $95^{\circ}$ . Huber first determined this as the *minimum*, and  $97^{\circ}$  as the *maximum*, and surely anyone who has put his hand under the quilt of a strong stock should know it was warmer than  $65$  degrees.

I offer a solution to the cause of the error. The compositor in setting up " $95$ " turned the " $9$ " upside down and made it a " $6$ ," and " $65$ " was overlooked by the proof-reader as being a mistake. Then writers, finding it as given by a big authority, take it as correct, and use it as correct, without troubling to refer to other authorities or testing it himself. Just as Prof. Cook might be quoted as authority that "the queen like the worker bees is developed from an unimpregnated egg." See "Observer's" notes for December 5, page 726.

I must say it reflects very little credit on the various writers for not at once seeing through the error. Truly the Americans may justly lay claim to being the most go-ahead people in the world while not one of them has had time to halt in the race to correct it—yes, an error that may next summer and winter result in the death of hundreds of thousands of stocks; even then I am afraid they would have no time to do anything but talk, so I take the liberty of writing a word of warning from the "Old Country" to put them right, if they are not in too big a hurry to read what I say.

#### ARE PURE ITALIAN BEES YELLOW-BANDED?

In your "Practical" papers you seem to think that all Italian bees are yellow-banded, and Mr. J. E. Pond, page 733, December 5th, thinks pure Italians once could be got from Italy, but doubts if they can now, and both he and yourself agree that brighter and yellower bees can be produced by selection than any ever imported.

In Frank Benton's article on Carniolans, which you reprint from his "Bees," he says: "Black bees, natives, too, and not imported, are found in Italy." It is a pity you did not reprint his article on Italian bees as well. In that article he explains that the yellow-banded bees are in a district to themselves; that they are entirely surrounded by black bees, with neither water, mountains, or other barrier between them, and that from a yellow-banded centre they shade off through every shade of hybrid to pure blacks. This is what Benton says, who has travelled right through them. From other authorities who have been to Italy, I make out that most of the bees even in *Liguria* itself, are

pure blacks, and not a trace of yellow blood is to be found in the southern half of Italy; moreover the black bees seem more to resemble those from North Africa than Germany, and from my experience with the race from Tunis I should say that they owe their sole popularity as honey-gatherers to a trace of black blood in their veins. Who has not praised the dark Italians?

It seems to me that a number of stocks of yellow-banded bees were at one time imported into North Italy, and though they have crossed and interbred with the surrounding blacks and the fact that the first queens produced pure drones even when cross-mated, there has been a greater tendency to the yellow blood, through this one fact. So that there is no wonder at you breeding yellower and brighter bees; it is quite possible to breed out almost all trace of black blood and get the original race, that is, providing the queens you breed from have had a line of descent through maternal ancestors that have also descended from the original and not from a black mother. Anyway, you can rest assured that yellow-banded "Italians" are no more natives of Italy than they are of Ontario, and from what I know of the matter I should expect to get them purer from the latter place, even if they had a little dash of Cyprian or Syrian blood in them.

American apiculturists who go in for honey production would find the black Italians to suit them better than the yellow-banded; or they might go in for the Tunic race from Tunis in North Africa, which I believe to be the original of the native black races of Italy.

You know, sir, I have had for trial every race of bees you or Frank Benton have seen, therefore I feel like being in a responsible position in asserting that no race of bees equals this one for wintering, queen-cell building, building up from little nuclei into strong stocks, or for honey collecting. Their faults are—and what race has not faults?—being a little bit cross when under the swarming impulse, which is the only time they are cross tempered, and the great tendency to soil their combs with propolis or anything sticky. I never saw a race of bees use propolis in such profusion, and when they can't get it readily they will collect coal tar, pitch, resin gum, in fact anything "sticky" seems to suit them. This fault makes them unfit for comb honey, yet I succeeded in getting a dozen beautiful sections, worked in glass, off them the past season (all I could get), and this at a time when all the other races had ceased to work for the season.

I feel sure it would be a most valuable race to cross with Carniolans, as this race has good

qualities in common with it, being remarkably docile with little inclination to use propolis. It seems to me that its faults could be sufficiently bred out to make the cross the best for both extracted and comb honey.

When Frank Benton sent me the queens to try, he did not seem to be impressed with them, as being of much value; he said they were the blackest race of bees he had seen and that I should find some interesting characteristics in them. So I thought, when I saw them taking a merry dance in front of their hives early in January, with the ground covered with snow and the thermometer standing at 30 degrees—two below freezing. The sun is only above the horizon here at that time 6½ hours. In August previous the bees would not fill a teacup, yet at that time they covered seven square feet of combs, two of which they had built, and not a bee, egg or grub had they been helped with, or anything besides combs and syrup. This was the end of '86, and if you remember, sir, I told you what wonders they had done, to my great surprise and delight, and advised you to give them a trial too. I don't know if you have done so or not, anyway, after two more season's work I am more astounded than ever with them.

There! I had no intention to sing the praises of the Tunic race of bees when I began. I have none to sell, and I don't see how I should find time to rear them for several years to come even if the demand was great and the prices high; so I have no hopes to gain anything. You see, sir, it is hard to keep a good thing when the keeping is no benefit, or else I would go boasting that the sole cultivator of the best race of bees in the world was

A HALLAMSHIRE BEE-KEEPER.

England, January 12th.

FROM THE CANADIAN BEE JOURNAL.

### My Opinions on Different Subjects.

#### PRIORITY OF LOCATION.

THE report of the O.B.K.A. meeting is very full and interesting. The paper on priority of location which was read at the meeting is strangely worded. Some expressions used are rather strong; the subject is a very weak one, and I fear the author of that paper will have to pet-it much to make it take root and live. Priority of location, in common with many other unimportant matters, might stand ventilating in a good-natured way for pleasure.

#### THE M'FADDEN QUESTION.

I see this is objected to by some. Well, take from our journals the humorous and chatty

articles and how will the rest look? Even the ludicrous to some extent is relished by most people, and he who finds fault with his JOURNAL because McFadden comes to see us sometimes simply forgets for the moment that there are many men of many minds, and the Editor thinks to give us all a little of what we like and no one all they like. How many articles of our own liking must there be in a single JOURNAL to pay us for the two cents it costs us? When I pay a dollar a week instead of a dollar a year for my JOURNAL, and pay for it in advance instead of after bimby, it may be different. Hibernation, the pollen question, priority of location, McFadden, sting trowel, and many other questions of like character, are all right if they die, as they generally do, in any reasonable length of time. I never lost any sleep on their account, on the contrary I am glad to know that while such articles please somebody else, I have found in the same JOURNAL articles worth many dollars each to me.

#### THAT "RING"

seems to take quite a hold on the minds of a few who seem to think Mr. Young is right in saying certain bee-keepers belong to such. Mr. Young has proved himself to be unworthy the kindness shown him while on this continent, but let him rest where he has placed himself. He can't play that card again. When a man sees or knows of a real wrong or danger it is his duty to speak the truth boldly. But nothing should induce a man to make guess-work of a matter and say things which he is not positive about, and which might tend to overthrow years of a person's labors. Such a course offers little inducement for improvement in any direction.

JOHN F. GARDNER.

Ouid, Erie Co., Pa.

FOR THE CANADIAN BEE JOURNAL.

Untrimmed Journals, Correct Nomenclature, etc.

WHAT a "pothor" you have been making about JOURNALS being uncut! I noticed it in the *Review* and *Gleanings*, put in a pharasical style: "See, we are not like other journals, particularly foreign, we are nicely trimmed and we do everything as it should be done." I suppose by "foreign," British papers were particularly aimed at. Let me explain that if a British publisher cut his papers they would be charged in the mails with book rate of postage, and if he had not prepaid it there would be double the deficiency to pay. The Post Office require the leaves to be uncut so that they can

discern between papers unread and those that have. If the writers would only pull the mote out of their own eye, they might then be able to see clearly and call things by their right names according to correct principles of the English language, and not use "colony" for stock, "tier" for storey, "L. frame" for Langstroth frame, "T super" for "L rest super, etc., etc., etc.

It always looks best for people to set their own house in order before trying to upset the orderly one of their neighbor.

I notice on page 786 for December 26, Dr. Mason "going for" "Observer". He evidently does not like writers with *nom des plumes*, and thinks it wants a man's real name and address to make him write straight; this seems like supposing a man cannot be honest unless he has a policeman always at his side. To such I would suggest the British motto: *Honi soit qui mal y pense*—"Evil be he who evil thinks", or as one would say in Hallamshire: "He judges others by himself."

Take the hint, Doctor, and let us have no more of your "sass." Over here a man is supposed to be vain, egotistical, or with an eye to the "main chance," who uses his name.

A HALLAMSHIRE BEE-KEEPER.

#### O. B. K. A. BY-LAWS FOR 1889.

I.

This Association shall be known as the Ontario Bee-Keepers' Association and shall be composed of those interested in bee-keeping who become enrolled as members by paying the annual membership fee of one dollar.

II.

A general meeting of the members shall be held once a year and shall be known as the Annual Meeting.

III.

The time and place of holding the Annual Meeting shall be fixed by open vote of the members present at the Annual Meeting previously held.

IV.

The President, Vice-President and District Directors shall constitute the Board of Management.

V.

Five members of the Board shall constitute a quorum.

VI.

Vacancies on the Board by death or resignation shall be filled by the President.

VII.

The officers of this Association shall be elected by ballot, with the exception of the Auditor

who may be elected by an open vote of the Association.

## VIII.

It shall be the duty of the President to preside at all meetings of the Association, to call for reports, to put motions when seconded, to decide upon questions of order and to declare the result of ballots and elections. The President, in connection with the Secretary, shall have power to call special meetings when necessary. The President shall be ex-officio chairman of the Board of Directors and shall call it together when necessary.

## IX.

In the event of the death or absence of the President, the Vice-President shall discharge his duties.

## X

It shall be the duty of the Secretary to keep and preserve the books of the Association. To call the roll and read the minutes at every meeting of the Association. To conduct all correspondence of the Association. To receive and transfer all moneys received for fees and otherwise to the Treasurer, having taken a receipt for the same. To make out a statistical report for the Association and for the Government. To furnish the officers of county and district associations with forms for organisation and annual reports, and to give notice of Association and board meetings through the press or otherwise.

## XI.

It shall be the duty of the Treasurer to furnish such securities for the moneys of the Association as the Board may determine. To receive from the Secretary all moneys belonging to the Association and to give receipts for the same. To pay them out on order endorsed by the President and Secretary, and to render a written report of all receipts and disbursements at each Annual Meeting.

## XII.

Any county or district bee-keepers' association in the Province of Ontario may become affiliated to this Association on payment of five dollars which shall be paid to the Secretary on or before the first day of May in each year, but every local association so affiliated must have on its membership roll at least five members who are also members of the Ontario Bee-keepers' Association at the time of its affiliation and must continue to have a like number of its members on the roll of this Association while it remains in affiliation.

## XIII.

Every affiliated association shall receive an

annual grant out of the funds of this Association. The amount of such grant shall be fixed by the Board from year to year.

## XIV.

All grants to affiliated associations shall be expended in prizes for honey shows, or for shows of apianian appliances, or for lectures on subjects pertaining to bee-culture, or for advertising district or county meetings, or for any or all of these.

## XV.

Every affiliated association shall report to the Secretary of this Association (on a form to be supplied by the Secretary) before the first day of January in each year, which report shall be signed by the President and Secretary of the affiliated association.

## XVI.

County or district associations seeking affiliation should forward to the Secretary an application according to the following form: "We whose names are written in the accompanying form having organised ourselves into a county (or district) association to be known as County (or District) Association No.— desire to become affiliated to the Ontario Bee-keepers' Association and we agree to conform to the Constitution and by-laws of said Association."

## XVII.

Every affiliated association that neglects or refuses to pay the annual affiliation fee, or neglects or refuses to forward to the Secretary the annual report on or before the date fixed may be deprived of their affiliation privileges by the Board.

## XVIII.

Should an affiliated Association become defunct after the payment to it of the grant from this Association, any unexpended balance of said grant shall be forfeited and paid over to the Treasurer of this Association.

## XIX.

Each affiliated association shall be entitled to the privilege of two representatives at the meetings of this Association in addition to those who are already members of this Association, and such representatives shall be entitled to all the rights and privileges of members of this Association.

## XX.

Every delegate from an affiliated association shall furnish to this Association a certificate signed by the President and Secretary of the body which he represents, showing that he has

been duly appointed a delegate of such Society.

## XXI.

Each affiliated association shall be entitled to the services of an Association lecturer (when such exists) once in each year. Half the expenses connected with such lecture to be borne by the District or County Association and half by this Association.

## XXII.

Districts or counties where no affiliated association exists, but into which an association lecturer is sent by this Association the whole expenses of such lecture shall be borne by this Association.

## XXIII.

The order of business by which the meetings of this Association shall be governed shall be in the discretion of the President but subject to appeal to the meeting when objection is taken when a majority vote of the members present shall decide on the objection and in such cases the vote of the majority shall be final.

## XXIV.

These by-laws may be amended by a majority vote of the members present at any annual meeting.

## SCHEDULE OF DISTRICTS.

- (1) Stormont, Dundas, Glengarry, Prescott and Cornwall.
- (2) Lanark, Renfrew, City of Ottawa, Carleton and Russell.
- (3) Frontenac, City of Kingston, Leeds, Grenville and Brockville.
- (4) Hastings, Prince Edward, Lennox and Addington.
- (5) Durham, Northumberland and Victoria.
- (6) York, Ontario, Peel, Cardwell and Toronto.
- (7) Wellington, Waterloo, Wentworth, Halton, Dufferin and Hamilton.
- (8) Lincoln, Welland, Haldimand and Monk.
- (9) Elgin, Brant, Oxford and Norfolk.
- (10) Huron, Bruce and Grey.
- (11) Perth, Middlesex and London.
- (12) Essex, Kent and Lambton.
- (13) Algoma, Simcoe, Muskoka, and Parry Sound.

## HONEY WANTED.

We will pay 12 cents per pound for good extracted honey, delivered in Beeton, in exchange for supplies at catalogue prices, and we will take all that offers, allowing 30 cents each for the tins when they are the "Jones sixty-pound."

From Gleanings.

## DOT GOMING BEE.

BY EUGENE SECOR.

I schpect you haf read of dot zhust goming bee  
 Vhat dose Yankees haf got poorty kvick,—  
 Dose bees vhat run ofer my schlow Zherman  
 blacks,

Und nefer kvits vork gause dier sick ?  
 I dinks, when I hears of dose schmart Yankee  
 bees

Dot zhust vone vill be all vat I need,  
 Begause dem haf dongues like dot schmall hcney-  
 bird.

Und suck up vone kvart mit a feed !

But Yankees, dem brag of dier goundree so pig,

Und dier bolidics so awful much,—  
 Of dier horses vhat run mit der lightning away,

Und dier peautiful vimins, und such,—  
 Dot I more dan twice believe ven dot bee does  
 been come,

He'll schpeak so ve Deitchers gan read ;

Und if him don't got to be all ofer plack,  
 I dinks him vill show der plack seed.

But I laffs ven I reads of dot schmart goming  
 bee,

Ven I dinks of Hans Brinkerhoff's mule—  
 (Hans vas mine neighbor zhust ofer der way,

Vere him lives mit der golden-like rule).  
 Vell, Hans him leadt oudt dot donkey vone day,

An der pump to gif him some drhink,  
 Ven up zhump vone pig in der mud mit der  
 trough,

Und oudt skibbed dot mule in a vink.

Und schtraight mit der bee-line, und halter to  
 boot,

Dot donkey, he schtart for mine lot  
 Vere a hundert bee-boxes schtoodt all in some  
 rows :

"Mebbe dems oats"—und mebbe so not—  
 Ven all at vone dime him schtopped at vone box.

Und schmelled a loud schmell in dot hole  
 Vere dose bees make dier honig und likewise  
 wax—

You den should hear dot schmile him schmole-

But dot olt king-bee vas daking one schleep,

Und vas mad ven dot racket him hear ;  
 He tought er prass pant had zhust broke out  
 loose,

Or some oder loudt noises vats kveer :

So oudt him send scouds to see vat vas up,

Und den der grant zircus vas gome—

Der more of dose bees vot go for dot mule,  
 Der kvicker dot mule don't go home.

Ven tree or four hundert glimbed into dose ears.

Dot donkey, him right apout face,

Und lifted vone foot, und den lifted two,

Like one horses vat vanted some race ;

But he don't gone pack to dot dear old home:

Vere Hans vas been calling so sveet,  
 But he lifted dose boxes so handy und kvick.

Und gave dem a good schtart—mit his feet.

But dot goming bee vas arrived all der dime,

Und gloser dan vone broder schtiiks

Aroundt dot donkey vot hadn't got learned

To nefer kick against der pricks.

Dot donkey, him laff on dot oder mout side,  
Ven him gets all him wants of dot fun;  
Him gry like vone *baby*, und rolls mit der grass,  
Und den him zhump up und home run.

Dot donkey, him svelt oudt like Zhumbo vas vide.

Und I dinks Hans don't go to feed  
Him any more oats so long as him lifts  
To make him so fat as he need.  
Und I peleaf dot Hans vill come ofer und buy  
Dose bees vot is petter dan gorn  
To fat up dose mules, und make dem home  
schtay  
Gondended und tame mit der barn.

## SUNDRY SELECTIONS.

HE HAS A POOR IDEA OF THE MARKSMANSHIP OF THE FRATERNITY.

B. T. BALDWIN.—As the North American Bee Association meets in Canada this year, how would it do to have the meeting in September, then everybody go and take their guns and go hunting up in that country where your Mr. Jones went, last year, killing 19 deer in five days. Don't suppose there is one bee-keeper in fifty that could hit the side of a barn twenty steps away with a shot gun, but there would be lots of fun in trying. I have thought of that hunt of yours a great many times since you told us of it. I haven't been hunting in ten years and never killed anything in my life, but your story aroused the Injun in me and I have been kind of off ever since.

Marion, Ind., Dec. 18th, 1888.

HEATHER SEED DID NOT GERMINATE.

GEO. M. THOMSON.—I wrote you some time since asking about how you succeeded with Heather, but never saw any reply. I had some seeds sent me by friends in Scotland, but it did not germinate. I feel satisfied it cannot be profitably cultivated for honey here.

Grand Junction, Jan. 22, 1889.

We had no better success.

IMPROVING EACH WEEK.

W. J. ROBINSON.—The CANADIAN BEE JOURNAL is improving every week. I like those practical papers by the editor.

Orangeville. Dec. 3, 1889.

WILL NOT MISS ANY NUMBERS.

V. CROSSMAN.—I enclose renewal of my subscription. I have forgotten the date of expiration, but I want to be in time so as not to miss any numbers.

Rathboneville, N. Y., Jan. 30, 1889.

ALEX. BLACK.—I commenced the past season with seven colonies, found the season better for increase than for honey, I got only about 150 lbs of honey 50 of which was comb in one pound sections, but my increase was ten colonies, mostly by natural swarming, but had to make

three by division, as a couple of hives were so full of bees and brood in August that I was afraid to put them into winter quarters without doing something with them. So I divided them successfully and put into the cellar on the 16th of November 17 colonies in first class condition, and they are wintering splendid so far, no signs of disease of any kind. The temperature of cellar has been from 38 to 42 by thermometer which registers about four degrees lower than what the temperature really is. The bees are very quiet and very few dead bees yet to be found in the cellar, and I am looking forward to better success next season. I found my bees last season cutting up pranks not recorded in any bee books that I have read, and not to be found even in the C. B. J.

Sonya, Jan. 30th, 1889.

What were the pranks you speak of? Your experience may be of value to others.

FROM 80 TO 100 AND 3 600 LBS. OF HONEY.

D. ANGLISH.—I commenced the season with eight colonies mostly all strong and had twenty natural swarms. They were all very strong with plenty of honey when put into winter quarters. I took 600 one pound sections and 3000 lbs extracted, total 3,600. How will that do for such a poor year as we have just passed through? I had a good fair yield from buckwheat, 1,300 lbs. surplus. One colony I had standing on the scales and it gained 25 lbs in four days, 11 lbs. in one day. I had three quarters of an acre of Japanese buckwheat and it yielded well in both honey and grain. From one peck of seed I obtained eighteen bushels. There was other buck wheat in the neighborhood, so you see if weather is favorable buckwheat will secrete nectar. If it is not very good it is honey and this year it is worth \$10 per 100 lbs—more than we can get for clover other years.

Mount Pleasant Apiary, Brantford.

M. A. HILSDON.—I must say that I am much pleased with the CANADIAN BEE JOURNAL; I find in it a great amount of useful information as well as some lively and comic reading, but I think there are some "large" stories. There are two good ones in the number of Dec. 19th from Alabama. Here is my report which I am very well satisfied with, considering the season. In the fall of 1887 I packed four colonies in boxes with chaff and leaves, they came through all right and went to work in the spring of 1888. I took 100 lbs. of comb honey and doubled them up, bought two so that I have now ten. In the fall I fed \$5 worth of granulated sugar and packed them for winter as before. I am sorry that I have no other name to send you but perhaps I can do better next time.

Ingersoll, Jan. 17th, 1889.

Attention is called to the list of books in this number. In this connection we might say that we can supply you with any standard book on the market and at lower rates than the stores. Write for prices on the works required.

# GOOD BOOKS

—FOR THE—

## Farm, Garden AND Household.

THE FOLLOWING VALUABLE BOOKS WILL BE SUPPLIED FROM THE OFFICE OF THE CANADIAN BEE JOURNAL. ANY ONE OR MORE OF THESE BOOKS WILL BE SENT POST-PAID DIRECT TO ANY OF OUR READERS ON RECEIPT OF THE REGULAR PRICE, WHICH IS NAMED AGAINST EACH BOOK.

### FARM AND GARDEN.

Allen's (R.L.&L.F.) New Am. Farm Book	\$2 50
Barry's Fruit Garden. New and revised	2 00
Beal's Grasses of North America.....	2 50
Brackett's Farm Talk, Paper, 50c. Cloth	75
Brill's Farm Gardening and Seed-Growing .....	1 00
Farm Appliances.....	1 00
Farm Conveniences.....	1 50
Farming for Profit.....	3 75
Fences, Gates and Bridges .....	1 00
Fuller's Practical Forestry.....	1 50
Gregory on Cabbages.....	30
Gregory on Onion Raising.....	30
Harris' Gardening for Young and Old	1 25
Henderson's Gardening for Pleasure...	2 00
Henderson's Gardening for Profit.....	2 00
Johnson's How Crops Feed.....	2 00
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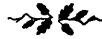
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We have a number of books which have been superceded by more recent editions, which we will sell at very low prices. In some instances they may be a trifle worn or abraded. We have:

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1 British Bee-keepers' Guide Book, T. W. Cowan, edition 1886—good as new.....	50	35
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# CANADIAN BEE JOURNAL.



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It is generally admitted that the introduction of Virgin queens into the apiary will receive a great deal more attention in the future than it has heretofore, and it is our purpose to offer a first-class Virgin Queen (value 60 cents), to everyone who remits us the sum of \$1.00 for a new or renewal subscription to the CANADIAN BEE JOURNAL. On and after the date of this circular we will register the name of each subscriber sending us that amount, and as soon as it will be possible to rear queens in the Spring of 1889, we shall begin filling the orders in the same rotation as received. We will probably send out many hundreds, and it therefore will be well to send in your subscription at once, if you wish to receive your queen early in the season. Registered letters at our risk, American currency and stamps accepted at par. Use the enclosed envelope.

### SPECIAL ATTRACTIONS FOR 1889.

We purpose adding to the other valuable information which will appear throughout the year, a series of papers on "Practical Bee-Keeping," by D. A. JONES, with exhaustive reviews by ALLEN PRINGLE. The papers began with the issue of Nov. 14, and will be continued right through the whole of the year 1889. Every subject pertaining to the business of bee-keeping will come in for special treatment, and nothing will be left unexplained, so far as our knowledge of the question goes. All the good things which have been tried and found to be thoroughly practical will be plainly and properly set forth in such way as will be easy of comprehension by the merest tyro in bee-keeping. Our main object is to talk of things that the amateur may not become muddled, and give up, despairing ever to learn. And there will as well be lots of "meat" for the older bee-keeper. We hope to receive many new subscriptions, and that all renewals will be sent in promptly.

**THE D. A. JONES Co.,**

BEETON, ONT.

P. S.—To all new subscribers we will send the back numbers from Nov. 14, to Jan. 1 free, and csu subscriptions will not expire till Jan. 1. 1890.

## SUPPLY DISCOUNT NOTICE.

As is our usual custom we now offer discounts for fall and winter orders. We desire it to be understood that we do this principally to avoid the crowding in the rush at springtime. We can always fill the orders to better advantage and take more pains when we are not crowded. This of itself is a good thing for the customer, and when to this is added the discount which we allow off catalogue prices, it will be well worth trying. Up to February 1st, 1889, our discounts will be as follows:

### 8 PER CENT.

Hives, Sections, Honey Extractors, Honey Boards, Section Frames, Section Cases, Frame Nailers, Wire for Frames, L Rests, Smokers, Hive Clamps, Honey Knives, Wax Extractors, Bee Tents, Comb-carrying Buckets, Comb Baskets, Bee Guards, Ripening Cans, Uncapping arrangements, Bee Veils, Queen Nurseries, Labels, Anatomical Charts.

### 4 PER CENT.

Nails, Perforated Metal, Comb Foundation Force Pumps, Feeders, Rubber Gloves, Introducing Cages, Tins, Shipping Crates, Honey Glasses, Sealers, Dextrine, Wire Cloth, Mosquito Bar.

All other goods in our Catalogue are subject to the prices found therein. For February the Discounts will be 7 per cent and 3½ per cent, respectively; for March 6 per cent. and 3 per cent.; No discount after April 1st. These prices of course are for cash with order. We have a big stock of almost everything on hand, and can ship at short notice. Catalogue free on application.

# USEFUL GOODS.

The following is a partial list of small wares, tools and stationery, which we carry in stock. Additions are constantly being made. We buy in very large quantities, and are therefore able to quote rock bottom prices. There is always something in these lines you want and they can be enclosed with other goods or sent by mail. The amount of postage is marked opposite each article, except those excluded from the mail.

## 5 CENT ARTICLES.

Postage.	Per 10 lots.	Per 25 lots.
3 Awls, brad, three assorted without handles.....	\$ 75	\$1 00
1 Blotting paper, 10 sheets note size.....	40	88
3 Bag for school books.....	45	1 05
2 Brush, round, for paint, paste or varnish.....	40	95
1 Chisel handle.....	45	1 10
8 Crayons, colored drawing.....	45	1 00
1 Eraser combined ink and pencil	45	
1 Letter openers, nickle plated, very handy.....	40	
1 Memo books, 32 pages, stiff cover.....	40	90
Note paper, 1 quire, extra quality, ruled or plain.....	40	80
2 Pad 100 sheets scribbling paper	45	
1 Pass books 3 "Railroad" 16 p. paper cover.....	45	1 00
1 Pass books, 2 Steamboat 32 p.p.	45	1 00
1 Penholders 2, cherry, swell.....	40	
1 Ruler, hardwood, flat, graduated to $\frac{1}{2}$ in.....	45	1 05
1 Ruler, for school children, three for 5c.....		
2 Scribbling books, 200 pages....	40	90
Tacks, cut, 2 papers 1, 2 or 3 oz.	45	

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Butter stamps 3 or 4 inches....	\$ 75	\$1 75
File, 3 corner, 3 or 4 inches....	75	1 75
Ink-well, glass, safety, cannot spill.....	65	
Mucilage, good sized bottle....	70	
Oil cans, zinc.....	65	
1 Pencil, automatic indelible....	75	1 75
6 1 doz. Lead Pencils, No. 852, very good.....		
1 Time books for week or month.	75	

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Bill files, harp shape.....	\$ 90	2 10
2 Book of 50 blank receipts with stub.....	85	2 00
2 Book of 50 blank notes.....	85	2 00
2 Brush, flat, for paint, paste or varnish.....	80	1 90
8 Butter spades 9c. each.....	80	1 90
2 Boxwood pocket 1 foot rule....	90	2 10
Chisel, firmer $\frac{1}{2}$ inch.....	90	

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	Per 10 lots.	Per 25 lots.
2 Clips for holding letters, etc....	90	2 00
Due bills, 100 in book with stub	85	1 80
2 Envelopes, 3 packages, white, good, business.....	95	
2 Files, 3 cornered, 5 inch.....	90	2 10
3 Lead pencils, 1 doz. plain cedar Fabers 581.....	90	
2 Lead pencils 3 red and blue....	90	
2 Note heads, pads of 100 sheets..	90	
Paint brush, No. 7.....		
2 Pocket note book, 3x5 in., 125 pages, stiff cover with band grand value.....	90	
1 Rubber bands, five, large.....	80	
1 Ruler, brass edged, flat, hardwood, bevelled, graduated to $\frac{1}{2}$ inch.....	95	2 25
4 School bag, medium size.....	90	2 10
Tacks, cut, 3 packages, 4 oz....	90	

## 13 CENT ARTICLES.

2 Belt punches, Nos. 2, 3, 4, and 5	1 25	\$3 00
File, 6 inches long, flat.....	1 25	2 90
" 5 " " round.....	1 25	2 90
Shce knives, 4 inch blade.....	1 20	2 75

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12 Dextrine, $\frac{1}{2}$ lb. pkge. for pasting		
Glue, 1 lb. ordinary.....	1 30	
Hammer, iron, adze eye.....	1 45	
3 Lead pencils, 1 doz., good quality, Faber's 971.....		
5 Note paper, 5 quires, 3 lbs., extra value.....	1 40	3 35
Paint brush, No. 5.....		
6 Rubber bands in gross boxes. For queen nursery.....	1 30	
4 Rule, 2 foot, a splendid line....	1 40	3 40
Screw driver, 5 inch, round bit, hardwood handle.....	1 40	
2 Statement heads in pads of 100	1 20	
Tack hammer, magnetic.....	1 40	3 30
12 Papeterie, 24 sheets fine note paper and 24 square envelopes in neat box.....	1 40	3 35

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Bit, best make, $\frac{1}{4}$ , $\frac{1}{2}$ , $\frac{3}{4}$ .....	1 65	4 00
Glue, LePage's liquid, with brush	1 65	
Oilers, automatic.....	1	

**20 CENT ARTICLES.**

Postage.	Per 10 lots.	Per 25 lots.
Bit, best make, $\frac{3}{8}$ , $\frac{7}{16}$ , $\frac{1}{2}$ , $\frac{9}{16}$ ..	1 90	4 50
Brass traps.....	1 85	4 50
Brushes, flat, 2nd quality, $1\frac{1}{2}$ in. paste or varnish.....	1 80	4 25
Chisel, firmer, inch.....	1 90	
Ebony ruler, bevelled for book-keeper.....	1 90	4 50
File, 8 inch, flat, round or 3 corner.....	1 90	1 75
Glue, 1 lb. light, broken.....	1 75	
8 Lead pencils, 1 doz. 201 good value, rubber tipped.....	1 80	
Paint brush, No. 3.....		
12 Papeterie, "Jubilee" containing 24 sheets, ivory notes, 24 square envelopes.....	1 80	
6 Pens, gross box "292 school"....	1 80	
1 Pocket memo book, indexed....	1 90	
Screw-driver, steel, 6 inch rd bit	1 90	
Square, iron, grad. to $\frac{1}{2}$ one side	1 90	
Thermometer.....		

**25 CENT ARTICLES.**

6 Cards, 50, ladies or gents' visiting. Piries' super ivory... 2 00	4 50
2 Duplicate order books, with black leaf..... 2 00	4 50
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3 Lead pencils, 1 doz. Faber's H, H. B., B. or B. B..... 2 30	
Paint brush No 1..... 2 30	
Rule, 2 foot, boxwood..... 2 30	
Tape Lines, "Universal," 3 ft.. 2 30	

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3 Bills payable and receivable... 2 85	6 90
Bits, best make, $\frac{10}{16}$ , $\frac{3}{4}$ , $\frac{1}{2}$ .... 2 85	6 90
250 Envelopes, Ladies', square.	
5 Foolsap, 2 quires, extra quality 2 80	
4 " legal, in pads of 100 sheets..... 2 75	6 00
Inkwell, square, glass, bevelled edges..... 2 75	

**35 CENT ARTICLES.**

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Square, grad. to $\frac{1}{16}$ both sides 3 30	

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Pens, gross box, 'Bank of Eng.' 3 80	
" " Blacks'one or J. 3 80	
Ruler, 2 foot, boxwood, brass bound..... 3 60	

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Cash " " " 4 25	

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Complete set, Cash, Day and Ledger, \$1.25.....		
200 page Day Book, canvas cover good paper, exceptionally low		
Carpenter's brace, pat. grip, 8 in 4 85	12 00	
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### 8 PER CENT.

Hives, Sections, Honey Extractors, Honey Boards, Section Frames, Section Cases, Frame Nailers, Wire for Frames & Rests, Smokers, Hive Clamps, Honey Knives, Wax Extractors, Bee Tents, Comb-carrying Buckets, Comb Baskets, Bee Guards, Ripening Cans, Uncapping arrangements, Bee Veils, Queen Nurseries, Labels, Anatomical Charts.

### 4 PER CENT.

Nails, Perforated Metal, Comb Foundation, Force Pumps, Feeders, Rubber Gloves, Introducing Cages, Tins, Shipping Crates, Honey Glasses, Sealers, Dextrine, Wire Cloth, Mosquito Bar.

All other goods in our Catalogue are subject to the prices found therein. For February the Discounts will be 7 per cent and 3½ per cent. respectively; for March 6 per cent. and 3 per cent.; No discount after April 1st. These prices of course are for cash with order. We have a big stock of almost everything on hand, and can ship at short notice. Catalogue free on application.

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We are just advised of shipment from the factory of the first instalment of 50 gross of the above. They are put up in barrels and hogsheds, (the latter for our own local use), and to save breaking bulk when shipping, we append below a table, of the qualities of which the shipment consists, together with the prices per

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No. of Barrels.	No. of Doz.	Price.
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1	8½	6 45
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5	9½	6 95
4	9½	7 15
3	10	7 35
3	10½	7 55
2	10½	7 75
1	11½	8 45

Owing to a rise in the prices of nails, we are forced to advance our prices somewhat, as will be seen by the following list. All orders will be filled only at these prices.

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¾ inch...	5000	20	17	1 60
⅞ inch ...	3880	10	17	1 60
1 inch...	2069	18	12	1 05
1½ inch...	1247	17	11	1 00
1½ inch...	761	16	10	90
2 inch...	350	14	9	80
2½ inch...	214	13	9	75
3 inch...	137	12	8	70

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	Per lb.	Per 10 lbs.	Per 100 lbs.
1½ inch.....	7	65	6 00
2 inch.....	6½	60	5 50
2½ inch.....	6	55	5 25
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