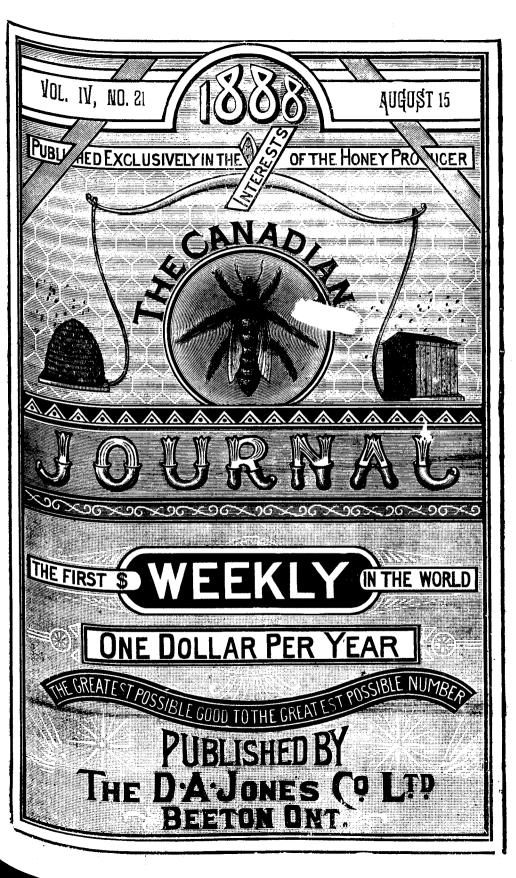
Technical and Bibliographic Notes / Notes techniques et bibliographiques

The Institute has attempted to obtain the best original copy available for scanning. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of scanning are checked below.

L'Institut a numérisé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de numérisation sont indiqués ci-dessous.

	Coloured covers /		Coloured pages / Pages de couleur
	Couverture de couleur Covers damaged / Couverture endommagée		Pages damaged / Pages endommagées
	Covers restored and/or laminated / Couverture restaurée et/ou pelliculée		Pages restored and/or laminated / Pages restaurées et/ou pelliculées
	Cover title missing / Le titre de couverture manque		Pages discoloured, stained or foxed/ Pages décolorées, tachetées ou piquées
	Coloured maps / Cartes géographiques en couleur		Pages detached / Pages détachées
	Coloured ink (i.e. other than blue or black) / Encre de couleur (i.e. autre que bleue ou noire)		Showthrough / Transparence Quality of print varies / Qualité inégale de l'impression
	Coloured plates and/or illustrations / Planches et/ou illustrations en couleur Bound with other material /		Includes supplementary materials / Comprend du matériel supplémentaire
	Relié avec d'autres documents Only edition available / Seule édition disponible		Blank leaves added during restorations may appear within the text. Whenever possible, these have been omitted from scanning / II se peut que
	Tight binding may cause shadows or distortion along interior margin / La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure.		certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été numérisées.
\checkmark	Additional comments / Continuous pagir Commentaires supplémentaires:	nation.	



ADVERTISEMENTS

The Canadian Bee Journal and **8**2 25 \$2 00 2 00 2 25 A B C in Bee Culture, cloth. Quinby's New Bee. Keeping (cloth) Alley's Handy Book (cloth)...... Langstrothon the Honey Bee (clh) Heddon's Success in Bee Culture "A year among the Bees," by Dr C. C. Miller...... A Bird's-eye view of Bee. keeping by Rev. W. F. Clarke...... 2 50 2 25 2 50 2 25 2 75 I 40 3 00 1 50 1 60 I 75

Books for Bee-Reepers.

We have prepared a series of pamphlets on special subjects relating to bee-culture, containing the best thoughts of our most practical beekeepers, which we offer at very low rates, as follows

QUEENS, And How to Introduce Them	.10
BEE-HOUSES, and how to build them,	.15
WINTERING, and preparations therefor	.15
BEE-KEEPERS' DICTIONARY, con-	
	.25
FOUL BROOD, its cause and cure	
	BEE-HOUSES, and how to build them, WINTERING, and preparations therefor BEE-KEEPERS' DICTIONARY, con- taining the proper definition of the special terms used in Bee-Keeping

Or the whole five books, post paid, for50 THE D. A. JONES Co., LD., Beeton, Ont.

BEE-KEEPERS' LIBRARY.

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

"A YEAR AMONG THE BEES." by Dr. C. C. Milr Price, 75c. A.B.C. in BEE CULTURE by A. I Root. Price, cloth,

A.1.25 : Daper, \$1.00.
QUINBY'S NEW BEEKEEPING, by L. C. Root,
Price in cloth, \$1.50.
BEE-KEEPERS' HANDY BOOK, by Henry Alley.

Price in cloth, \$1.50
PRODUCTION OF COMB HONEY, by W Z Hutchson. Paper, price, 25c. THE HIVE AND HONEY BEE, by Rev. L. L. Langs

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

A BIRD'S-EYE VIEW OF BEE-KEEPING, by Rev. W.F. Clarke. Price 250

SUCCES IN BEE CULTURE as practised and advised by James Heddon-price in paper cover, 50 cents. BEEKEEPERS' GUIDE OR MANUAL OF THE APIARY, by Prof. A. J. Cook. Price, in cloth, \$1.25.

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 allon Pringle. This is in the shape of a leafet (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 1000, \$2.75; per 500, \$1.70; per 300, \$2.75; per 500, \$1.70; per 800, \$2.75; per 500, \$1.70; per 800, \$2.75; per 500, \$1.70; per 800, \$2.75; per 800, pe 856, \$1.00; per 100, 500.

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

Barnes' Foot Power Machinery

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

THE D. A. JONES Co., LTD.

PUBLISHERS'

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 prem um one C. B. J. Binder. Send postal card for sample of leaflet, "H reasons why it should be eaten." "Honey. som

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

Subscriptions are always california. Subscriptions are always acknowledged on the wrapper

American Currency, stamps, Post Office orders, and New York and Chicago (par) dratts accepted at par in payment of subscription and advertising accounts. ERRORS. — We make them: so does every one, and will cheerfully correct them if you write us. Try to waits good naturedly, but if you expend. will cheerfully correct them if you write us. Try to will specified them if you write us. Try to will specified them if you write us. Try to will specified us way. Do not complain to any one else or let it pass. want an early opportunity to make right any injustice may do.

want an early opportunity to make right any injustive may do.

We can suppy Binders for the JOURNAL 55 cents each, post paid, with name wrinted on the back in Gold letters, Subscription Price, \$1.00 per Annum Postage free etc.

Canada and the United States; to England, Germany, the rocents per year extra; and to all countries not in postal Union, \$1.00

The number on each wrapper or address-label will show the arriving number of your subscription and by compared.

the expiring number of your subscription, andby comparing this with the Whole No. on the Journal you can get certain your exact standing. certain your exact standing.

ADVERTISING

A'l advertisements will be inserted at the following

To cents per line for the first insertion, and 5 cents per line for each subsequent insertion.

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

12 MOS 6.00 STANDING ADVERTISEMENTS. 6 lines and under..... 2.50 One inch 4.03 86.00 10.00 15.00 19.00 25.00 30.00 One inch..... **\$**4.0 9,,20 Two inches..... 7.00 Three inches..... Four inches..... 15.00 Six inches..... 12.00 19.00

Contract advertisements may be changed to suit and asons. Transient advertisement Transient advertisements inserted till forbid and accordingly. REASONS. charged accordingly.

RATES CLUBBING

THE CANADIAN BEE JOURNAL AND "Gleanings." semi-monthly

TO CONTRIBUTORS

Communications on any subject of interest to the

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

When sending in anything intended for the Journal of the same envelope.

Reports from subscribers are always welcome. Reports from subscribers are always welcome. Sasist greatly in making the Journal interesting particular system of management has contributed to your process, and you are willing that your neighbors should know it, tell them through the medium of the Journal.

TABLE OF CONTENTS.

Ania -	PAGE.
Apiary, Our own	405
Honey, Comb	412
Pro Golden	413
Premium for 1887, Membership "Bullet Wings, Clipping" Introducing, Swarming.	406 410
We See and Oducing, Swarming.	408
The Weather, August Work	412
August Work	406

PRUIT PRESERVED WITHOUT HEAT I

TIME, LABOR AND MONEY

SAVED BY USING THE

Persect Fruit Preservative.

Fermentation absolutely prevented. Simple, Reliable, Harmless. PRICE 25 CENTS per box. Sold by Grocers, or supplied by

BOOTHE BROS., Props., TORONTO.

Pae D. A. JONES CO. Ld., BEF

BEETON.

CLARK'S COLD BLAST SMOKERS.



We are making these, with late improvements, d can for with other and can forward them by mail or with other soods brices are as follows: The prices are as

Each .. With goods. By mail. 6 at one time, each 45c. 70C. 5oc.

THE D. A. JOHES CO. Ld., Beston, Ont

My 20th Annual Price List of Italian, Cyprian Queens and Nuclei Colonies (a specialty); also Supplies—will be sent to all who send their names and addresses.

LIGHT STREET, Columbia Co., Pa.

Practical Hints to Bee-Keepers

Sent free. Address

American Apiculturist. Wenham, Mass, U.S.



ITALIAN BEES AND QUEENS. Two or three Frame Nuclei or Full Colonies at lowest price. Every Queen bred from Imported stock and guaranteed second to none. Address

E. HEAL.

LINDEN APIARY,

ST. THOMAS, ONT.

52.50

And we will send you a good serviceable man or boy

Nickle Keyless Watch,

And Forest and Farm for one year.

The livliest and Best Weekly Paper published in the Dominion. Send your address for sample copy and full particulars. Special terms to bona fide canvassers.

FOREST AND FARM.

CHAS. STARK, Publisher, 50 Church St., Toronto.

-Comb Foundation-

Having purchased one of the best machines I am ready to receive wax to manufacture or buy. Pure Italian bees, queens and comb foundation for sale, Agent for the D. A. Jones Co. supplies. Can ship by C.P. R'y or H. & N.W.R., (now G.T.) and by Dominion or American Express.

H. COUSE.

Cheltenham, Ont., April 5th, 1888.

There was probably never before gathered together so much reliable information upon the above subject as is to be found in the

For July. If you have, or expect to have, unfinished sections, read this number. If you have failed to make a success of "feeding-back," its perusal may show you where you made your mistake. The August issue will be a "Fair No."

Price of the EEVLEW is 59 cents a year. Sample free. Back numbers can be furnished.

THE PRODUCTION OF COMB HONEY.

A neat little book of 45 pages, price 25 cents. The REVIEW and this book for 65 cents. Stamps taken either U.S. or Canadian. Address

W. Z. HUTCHINSON, 613 Wood Street, Flint, Mich.

BEE-KEEPERS'

We make a specialty of Apiarian Printing, and have unequalled facilities for Illustrated

Catalogue and Label Work.

Note these figures, which include printing.

500	10	000
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 10c).	

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

THE CANADIAN BEE JOURNAL,

BEETON.

EXCHANGE AND MART.

Advertisements for this Department will be inserted at the uniform rate of 25 CENTS each insprtion-not to exceed five lines—and 5 cents each additional line each insertion. If you desire your advt. in this column, be particular to mention the fact, else they will be inserted in our re ular advertising columns. This column is specially intended for thosewho have bees or other goods for exchange for something else, and for the purpose of advertising bees, honey, etc. for sale. Cash must accompany advt.

HONEY.—We can take all that offers in exchange for supplies, at prices found in another advertisement in this issue. THE D. A. JONES CO., Beeton, Ont.

LIONEY.—I want to purchase a few thousand pounds of Comb and Extracted Honey. Send lowest cash price on board cars. EDWARD LUNAN, Buttonville; Ont.

\$1.00 Will seenre you by mail, post paid, 250 Noteheads and 250 Envelopes with your name, business and address printed on the corner of each. Send in your order now. THE D. A. JONES CO., Beeton, Ont.

QUEENS, GRAND LAYERS.- Untested Italians \$1; a few mismated, in 2nd season, clipped, 50c.; Virgins 50c. Foul brood never in this locality. R. KNECHTEL, Brussels. Ont.

SECTIONS! SECTIONS!

At low prices, and sample free. Send card for sample. Received first prize for

COMB FOUNDATION!

Toronto Exhibition, 1887. Brood and Section Foundation by return express. All kinds of Bee-keepers' supplies,

S. P. HODGSON & CO., Shelburne, P.O., Ont.

A RARE CHANCE

The Authorised Capital by Government Charter of the D. A. Jones Co is \$40,000, the subscribed and paid-up Capital is \$19,000. We yet require

TWO PRACTICAL MEN

To assist in the management of our large supply business, who could invest \$2,000 to \$3,000, such which will be fully secured, and good salaries will paid. We want those who would remain permanyation of Good chance for suitable managements can be made to take farm lands in less of cash. Principals only dealt with.

D. A. JONES, BEETON, ONT.

FINE ITALIAN

FOR REMAINDER OF SEASON OF 1888.

I untested queen 1 tested

Invariably by return mail, and safe arrival Stateburg, Sumter Co., S.C. anteed.

NEARLY 30 TONS OF

FOUNDATION DADANT'S

SOLD IN 1887.

T.G. NEWMAN, & SON, Chicago, III.
C. F. MUTH, Cincinatri, O.
1 AMES HEDDON, Dowagiac, Mich.
F. L. DOUGHERTY, Indianapolis, Ind.
CIIAS. H. GREEN, Berlin, Wis.
CHAS. HERTEL, Ir., Freeburg, III.
E. L. ARMSTRONG, Jerseyville, III.
E. KRETCHMER, Coburg, Iowa.
M. J. DICKASON, Hiawatha, Kans.
ED. R. NEWCOMB, Pleasant Valley, N.Y.
J. W PORTER, Charlottesy lie, Va.
J. B. MASON & SONS, Mechanic Falls, Me.
Dr. G. L. TINKER, New Philad-lphia, O.
D. A. FULLER, Cherry Valley, IIIs.
JOS. NYSEWANDEK, DesMoites, Iowa.
G. B. LEWIS & CO., Watertown, Wis.
PAUL L. VIALLON, Bayou Goula, La.
B. J. MILLER & CO., Naphange, Ind.
J. MATTOON and W. J. STRATTON, Atwater,
Goodeli and Woodworth Mfg. Co., Rock Falls,
J. A. ROBERTS, Edgar, Neb.
OLIVER FORSTER Mt. Vernon, Iowa,
GEORGE & Hil. TON, Freemont, Mich.
J. M. CLARK & CO., 1409 15th St., Denver,
and numbers of other dealers. Write for SAPLER
and Price List of Bee Supplies, We.
EVERT PRICE OF THE PRICE O TIT IS KEPT FOR SALE BY MESSES.

and numbers of other dealers. Write for Samples fees and Price List of Bee Supplies, We standard feever fuch of our Pour dation equal to in every respect. Everyone who buys it is placed with it.

CHAS. DADANT & SON. Co., ILL.

BEE-KEEPERS

OAVE money by printing your name and address on your labels, cards, etc., yourself. Your name on Rubber Stamp, 15c. Name and address, 25c. Any number of lines at 15c for first, and 10c for each extension. If ink and pads are wanted with stamp, add if to these prices. Club amounting to \$1.25 sent for all 1900 sends sample of any name printed, to give smiller, and the side of the simulations of the sample of any name printed, to give smiller, and the side of t If you send sample of any name printed, to give us an idea of the size and share you. idea of the size and shape you want we can suit you.

Gem Rubber Stamp Conf.



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

Vol. IV. No. 21

BEETON, ONT, AUG. 15, 1888.

Whole No. 177

EDITORIAL.

HE officers of the Union as just reported are as follows:—President, James Heddon; Vice-Presidents, A. I. Root, Prof. A. J. Cook, Dr. C. C. Miller, G. M. Doolittle, G. W. Demaree, Secretary and General Manager, Thomas G. Newman. These are all re elections, and prove that they tetain the confidence of the members of the Union.

Speaking of the bees of Hymettus, Frank Benton says in a letter to a correspondent:—" It I were to send you a Hymettus queen you would not know her nor her bees from Carniolans—except in their temper. The Hymettus bees, or bees of Attica, will fly at one when he approaches their hives, with much more vigor than even blacks, and also in greater numbers. Disturb them without smoke, and you will want a brook near at hand to jump into."

From what we can learn the majority of those who have been in the habit of making displays of honey at the Toronto Industrial, will have none to exhibit this year. As a consequence the exhibit is likely to be small, unless some of the more fortunate ones come to the rescue and make good exhibits.

The prospects for a fall flow where fall pasturage is to be found is good, considerable rain having fallen of late. I have taken about 50 lbs. of honey. I cannot

The last number of the bee journal published by Mr. Ivar S. Young (Norwegian) contains an engraving of Capt. J. E. Hetherington, Cherry Valley, N.Y.

Mr. Ivar S. Young still continues his report of his visit to Canadian and American bee-masters, in the Tidskrift fer Biskjotsel. The last issue covers his visit to New York, and to Friend Cushman, Pawtucket, just previous to his return to Norway.

OUR OWN APIARY.

PRESENT WOKK.

HE article which appears in this (issue, by Allen Pringle, so well covers the ground of present work that we will substitute it for what we might say ourselves. It is much better said than we could do it.

THE SEASON THUS FAR.

QUEBEC.

ARGENTEUIL.

LACHETE.—I have taken about 40 lbs. of extracted honey. I have had no swarms, and the prospects are not very good for fall; some colonies will hardly get enough to winter on. It has been very dry this summer. There are very few bees about here.

BEAUHARNOIS.

BEAUHARNOIS.—Between three new colonies

tell exactly how many pounds from each. The prospects for a fall flow are poor at present. One bee-keeper having 42 colonies has had but 56 swarms. Another with 38 colonies has had but 40 swarms. Neither have taken any honey. My 10 colonies have given me 12 swarms. I divided two artificially, making 14 good swarms. I look for a yield from basswood and fall bloom though I fear the season is too dry for either.

RICHMOND.

DUNVILLE.—We have had a wet backward summer. I started this spring with four colonies and have increased to eight. There will be very little surplus honey in this district this year. Do not expect much of a fall flow.

For the Canadian Bee Journal.

The Membership Premium for 1887.

OUBTLESS those who were members of the Bee-Keepers' Association last year will be surprised that nothing has been done with the appropriation in their favor made at last annual meeting. It will be remembered that the appropriation then made was for the purpose of procuring a copy of "Langstroth on the Honey Bee," provided the sum put at the disposal of the Directors warranted this. The Directors delegated to the writer the duty of negotiating with the publishers, Messrs. Dadant & Son, for some two hundred copies of the work, to be distributed as directed by the Association. The communications which passed between the publishers and myself up till the time they last met were then submitted, since that time I heard nothing of the progress made in getting out the work. I wrote the firm a few days ago asking them when it would be ready for delivery, to which I received the following reply:-"The work is not all in type yet. We send you a few proofs. Will notify you as soon as book is out." The members will thus see that the Directors are not responsible for delay in furnishing them with what they doubtless expected to have got some time ago.

R. McKnight.

For the Canadian Bee Journal.
Introducing Queens-Swarming.

ENCLOSE a short account of the state of our little apiary, and taking you at your own word, will once more trespass upon your own courtesy. You must, I think, have given me a most extraordinarily prolific queen, for the Italians have devoted themselves to swarming and the hive seems as full as at the beginning, indeed fuller. We put on a super but as they

did not work in it we concluded to follow your advice and contract the brood chamber. Found four or five queen cells, and fearing they not swarm, and not wishing to close the question took out on July 16th two frames and put them in a combination hive, a queen cell was on frame and a good many bees and plenty of brood of both. Two days after the queen was hatched and the colony quite busy. July 23rd the original nal colony (from you) swarmed naturally we hived them in our last Combination hive. Combintion ahives had been used for the two black swarms from box hives. July 25th naturalswarm No.2 came and we united it quite easily with natural al swarm No. 1, having captured the queen beauty, too. July 27th swarm No. 3 came of and we essayed to unite it with the artificial swarm taken off July 16th, and succeeded, but with great loss of life, as, I suppose, you bee-keeper will imagine. I captured this queen also and intended to give it to the first swarp. which, I supposed, contained the original Italian queen you sent, which we intended introduce to a hive of natives. But, alas, both my virgin queens died. I had each in a cage yours with honey, but after 36 hours confine ment both died. Please tell me should the have had bees with them or how do you keep queen bees?

I am very sorry I have lost them for the were beautiful creatures and I feel an ignorant regicide. There are only three linden trees this neighborhood. Will they grow from suck ers and can those be planted any time but spring? I have been much interested in C. B. J. papers on dead brood, as in June we had a colony box hive had just the symptoms and I did not like to bore you about it. Nothing in our books could be found to coincide, unless it might be mothworm, so we decided it must be. was a strong colony and every morning for fortnight the alighting board had numbers of full grown larvæ, if the term be allowed, jully formed but white, and many of them alive crawling about, evidently just hatched. bees were also flying away with larva. were afraid other hives were getting it, but I now think it must have been stray dropped by the bees. The affected colony hard at work now and seems very strong, making surplus in two boxes. Will you tell me how to fasten the foundation in the frames or sections We are using white glue but have much trouble in getting them to hang straight. My brother has kept bees for many years in box hives and has been very successful in wintering in his cellar with hives raised slightly from bottom boards. The early part of this season has been

unfavorable for honey, drought and high winds, but we have had more rain lately and the bees make noise enough just now, so we hope it wont be "great cry and little wool." I boold like to say a great many good words for the C. B. J.; it is so nice.

H. F. MOWAT.

:8t. Andrews, N. B., July 30. Of course we always try to give our customers queens that will please them, and bees, too, and think we have fully Succeeded in our efforts, believing as we do that careful selection and breeding is the only way to produce the best results. Your caging the queens for 36 hours would result in their death in all probathan unless you put a few bees with them, but had you placed young bees in the cage to feed the queen you might have kept her a long time.

Unless great care is taken in uniting swarms with a colony, which had already been at work a week or two there is danger of having more or less of the bees destroyed; sometimes even smoking them will not prevent them from killing each other, especially if honey is not coming in. Colonies that have been separated for weeks may be united by removing the combs, and shaking both colonies up together and leaving them without combs until evening or morning, when combs may be given them. way we recommend sometimes to introduce queens into fertile worker colonies. The dead brood you speak of may have been caused by the beestrying to cut out moth webs and remove the larvæ, as their instinct teaches them that the presence of these is a fore-warning of their destruction and they will even sacrifice their brood in order to remove the webs. If you had examined the young bees that were alive no doubt you would have found their wings defective. Very often young bees hatched when moth webs the in the combs will have webs about their wings and legs and be otherwise defective. These are treated as dead larvæ, and carried out by the bees, who the L. smow that they are of no use in the hive and that their is removal a matter of economy.

We sent you a price list showing the foundation fastener, which is used for fastening toundation in sections, but it You have only a few sections to put toundation in you can do it by simply

foundaedge of the putting the the centre of the tion in of the sections pressing it firmly with a putty knife, or any other device, to the wood. The sections should be very warm and the wax cool that you may put a severe pressure on it to make it adhesive, as described in previous numbers of C. B. I.

From Live Stock Journal.

THE WEATHER, AUGUST WORK, ETC.

UCH a drouth as is now affecting central Ontario is altogether unprecedented in the recollection of the oldest inhabitant.

The afflicted district is mostly included between Toronto and Brockville, in some parts of which, including the most of Lennox and Addington, there has been but little rain since winter. As a consequence the face of nature presents a spectacle as unusual as it is discouraging to the agriculturist. The pastures are so dry and parched that stock has to be fed; the hay, which is now about harvested, is not half a crop, while the grain under the scorching sun and dry winds is not half a crop. Potatoes, between the bugs and drouth, are suffering greatly, while even corn, which will stand so much drouth and heat, is languishing. Wells and cisterns are giving out, and the water-wagon is increasing in weight, while the milk-wagon is rapidly decreasing.

Of course the bees, in common with other living things, are suffering. I took some surplus honey in June, but they are now at a standstill, and I am feeding the nuclei to keep them from starving. The honey crop within the area indicated above, will, no doubt, be exceedingly light. And should the drouth continue much longer, thus cutting off buckwheat and other fall honey, the situation will be a serious one to the apiarist, for in that case the colonies will not only be without winter stores but without young bees to go into winter quarters. To have young bees for winter is one essential condition of getting through safely. The continued drouth and consequent dearth of nectar will inevitably check the brooding as it did last year, and this was one of the chief causes of the extensive mortality the past winter and spring. But this difficulty may be met and overcome, not, however, without skill, trouble and expense. And as these are not likely to be brought generally into requisition by the average bee-keeper, it will be quite safe to predict this far in advance another lot of empty hives next May. This may sound rather pessimistic, but no matter, I only wish it to serve as a warning.

WHAT TO DO.

To point out an evil or unpleasant fact is one thing, to indicate the remedy or point out the means by which the evil may be overcome, or partially overcome, is another. When the two can go together the mentor may save himself from hasty and unreasonable censure.

Under ordinary circumstances during a favorable season, August is not too early to begin to prepare for winter. Under such exceptional circumstances as this season presents, it is imperative that such preparation begin this month; If there is no honey coming in from the fields to keep up the brooding, it may be kept up by proper feeding. In the absence of honey, syrup from number one granulated sugar will answer every purpose. One quart of water to two and a half quarts of sugar brought to a boil will be about right. You can gauge the proportion of each by a trial or two, as the syrup, when cold. ought not to be quite as dense as ordinary cured extracted honey in the liquid state. For stimu. lating purposes a little of this, say half a pint. ought to be fed to each colony daily-in the evening-to prevent robbing. If the hives are "fast bottoms" and tight, the feed may be poured over the frames at the back part of the hive, where it will run to the bottom. By tipping the hive up a little at the front, the feed will settle in the back part of the hive on the bottomboard, whence the bees will soon carry it up where required. In the case of "loose-bottoms," and in the absence of "bee-feeders," the feed may be given at the top in the second storeys in shallow vessels, with floating sticks to prevent drowning. To feed bees in the "old box hives." when full of comb, so that the vessel can not be placed in below the comb on the bottomboard, they must be fed from the top. In almost all box-hives there is a hole or holes through the top of the hives to place a "cup" over, and this may be utilized for feeding. Open the hole or holes and place the feed in under the "cap" as above directed.

This regular feeding (which in apicultural parlance is called "artificial stimulation") will have the effect of keeping up the brooding during a honey dearth, provided, of course, there is a reasonable amount of food ahead in the hive. If there is not, give them 10 or 12 lbs. of the feed at once at the start to store away, and then keep up the small rations regularly.

The brooding ought to be kept up in the fall till the middle of September at least. Then with a stock of young bees to go into winter quarters, with abundance of stores, the risks of wintering will be greatly reduced. Amount of

winter stores per colony, quality, etc., will be in full time.

In favorable localities where there is a full flow of honey from buckwheat and other sources, the feeding is of course unnecessary. But under such circumstances the extractor is generally used a little too freely and too late in the season. And this is one of the causes of winter losses, the country of the brood-chamber (which ought to be discouraged) is still largely practised and those who do practise it ought not to left, their selfishness over ride discretion in fally extracting. A safe rule is always to leave 30 to 40 lbs. of honey in the brood chamber after the first of August. Extracting too closely in the fall with the intention of making up any shortage by feeding is unsafe and unwise.

ALLEN PRINGLE.

From the Eastern Farmer.

COMB HONEY.

S the time is at hand for obtaining combinations, a word about the methods to be employed may not be amiss.

No doubt shallow frames without combtend to drive the bees in the sections; but at the same time the queen must be suppressed in her duty, namely, to keep the colony supplied with brood; for where there are ample vacant cells the queen is sure to increase even beyond one's expectations. I believe that I first gave the origin of my own plan in the Lewiston Journal, a number of years ago, which is in full harmony with the instinct of the bees.

As the queen will only use comb seven-eighths. of an inch thick, it must be shaved down to that depth. Now where there is much honey in the comb, it is to be extracted. But the comb be left, as it generally is, say § of an inch or apart. They are to be closed up to at least an inch and inch an inch, and by using strips of wood 3x8, a large-headed tack driven in the edge to of inch from the top (the strip is half the length of the end-bar of the frame); these are now hung of the tin rest, and the frames crowded against them, one at each end of the frame next to side of the hive, and so on. At last they hung between the division-board and the frame, and all crowded up close. Thus the frames are all spaced alike, and we can move the hives, and yet all is secure. Thus closes, the bees cannot bulge much of the comb, and the queen is sure to use the natural thickness; which she has plenty of, and the bees are glad to the sections.

I am sure, too, that we need less comb in this.

way, and yet we are sure of more brood. I get nine frames into a hive only 112 inches wide; with even this number the bees will work in the sections far better than in the old way, when crowded down on five or six combs spaced away apart by bulged and thick comb. Such is sure to cause swarming, as instinct plainly teaches the bees that they must soon be unknown if no brood-one is provided; and how often we have found but little brood where there should have been an abundance, and yet the cause never occurred to us. This shaving and narrow spacing also prevents storing of pollen in the sections to a great extent, simply for the reason that there is plenty of room right among the brood, where it should be. When one has a large number of colonies, there is a great saving in the comb, which is quite an item.

Of course for winter the combs are spread and a stay like the above only $\frac{1}{k}$ of an inch would please any one when he comes to move the hives into and out of the cellar, as they are simple and cheap, and remain nicely in place. Try it,

After trying about every method, I have proved the above method to be the one—also that it pays to use full sheets of foundation in sections, and to cover the boxes up warmly, and then rest assured if there is honey in the field, it will be carried into the sections.

From Gleanings.

Pollen and Pollen Grains.

PROF. COOK TELLS US SOME WONDERFUL THINGS ABOUT THEM.

OLLEN is the male element of plants, and corresponds to the sperm cells of animals. When we remember that no plant-ovule can possibly develop without the fructify-sing influence of these pollen grains, we understand how necessary they are in the vegetable economy.

Pollen grains are very small; often appearing, when shaken from the plant, like a cloud of dust. Their color is exceedingly varied. Some are almost black, others nearly white, though for the most part they are either orange or yellow. Their form is also extraordinarily diverse. Some are spherical, others cucumber shaped; still others crescent form, and yet others remind us of a dumb-bell. We have in our college library a book at least three times as large as the A B C, devoted entirely to pollen grains. In this volume are many pages used exclusively to illustrate the varied forms and markings of different kinds of pollen grains. So characteristic are the forms of pollen grains that we can often tell what plants

our bees have been visiting, by simply dissecting their stomachs. The sculpture, or external markings of pollen grains, are quite as varied as their general forms. Some are smooth, others rough; some are ridged, others grooved; some are pitted, while others bristle with sharp points. Often these projections vary in the same pollen grains.

The pollen grains are developed in the anthers or ends of the stamens of the flowers. In order to fructify the ovules, these grains must lodge on the soft stigma, or end of the pistil. But frequently the stamens and pistils are in different plants. In other cases, where stamen and pistils are in the same blossom "Nature shows her abhorence of close fertilization" by causing the stamens and pistils of a flower to mature at different times. Hence the great necessity of bees and other insects for the performance of this important work in vegetable economy. They must carry the pollen to the stigma. Where any such union is so important, and yet in the nature of things accidental, Nature is always very lavish. Thus the female fish simply drops her eggs, or roe, in the water. The milt from the male passes into the same medium. Here the union must be accidental, and depends on favoring currents; hence the eggs and sperm cells of fish are numbered by millions. For a like reason the pollen grains of plants are exceedingly abundant, and far out number the seeds. Thus in the Chinese wistaria, a beautiful climbing beeplant. illustrated in my Manual, there are, says Goodale, seven thousand grains of pollen to about thirty ovules. Hassall estimates that the number of grains in a single plant of rhododendron is seventy-two million six hundred and twenty thousand.

Each pollen grain is a single cell, having two coats—an outer, extine, and an inner, intine, for its wall. It is the extine which is beset with projections, in rough pollen grains. The extine is also frequently perforated. In this case the intine lines these holes, or openings.

As previously shown in an article Gleanings, the contents of each pollen grain is protoplasmic matter. This is rich in albuminous material. Indeed, the chemical composition of pollen is not greatly unlike that of some of our grains, as oats, barley, etc.

When the pollen grain lodges upon the stigma, if the latter be in a right condition, as shown by its adhesive secretion, the pollen grain increases somewhat in size, and soon a tube, sometimes more than one, pushes out through a perforation of the extine. The tube passes through the whole length of the style till it reaches the ovule

which is to be fertilized. The time required for the descent of the pollen-tube varies from a few bours to two or three days.

A. J. Coox.

Agricultural College, Mich.

From the Farmers' Advocate.

CLIPPING QUEEN'S WINGS.

OME bee-keepers, who appear unable to place themselves in the position of a farmer, or in fact anyone who has but little practical experience with bees, and yet keep a few hives for pleasure and profit, will often advocate the clipping of queen's wings. Now let us look at the question in detail. The object of clipping a queen's wings is briefly to prevent her leaving the hive with a swarm. The queen, by an experienced hand, may be caught at the entrance and caged. The old hive may be removed and the new one put on the old stand, and the queen placed in a cage and put upon the combs or foundation in the new hives. The swarm finding they have lost their queen will return to their old home, or rather the place where their old home was, and which is now occupied by the new hive, and they joyfully enter and remain with the queen. All this is well, and the ease with which the swarm has been hived pleasing, but we are supposing that all will be rightly done. But how is it with the novice? How many find it difficult to detect a queen even in the hive when all is quiet, and how many will point to a drone even and say. "There she is." Let the reader answer for himself. Enough to say there are many who will not be able to detect the queen as she issues with the swarm, and not being able to fly she will hop or run out from the hive and be lost from the swarm, and often the swarm returns having lost its queen. Again, as one must watch the bees all the time, the presence of the beekeeper is required when the swarm issues, or he may again lose his queen. In this way valuable queens may be lost, and the swarm returning to the hive has to wait till the young queens may emerge from the cell, when a dozen lyoung queens may go out with the swarm, and the bee-keeper has after all to hive his swarm with he queen; for her wings will not have been clipped. The colony has lost the use of a laying queen from the time that a swarm emerges until the young queen has become fertilized and is laying. This latter may or may not prove a disadvantage, depending upon the time the bees swarm and the duration of the honey season. If the queen is lost four or five weeks before the honey season closes it is a loss, as the worker

bee hatches in 21 days and becomes of use of or two weeks after she hatches.

Of course there is an advantage in clipping, it may be argued, and the advantage is that should a swarm issue and not be seen, the queen may be lost but the swarm will return. So it will but what then when the young queens hatch the swarm may leave with them, and you may all the time be lulled into false security and think the clipped queen is still in the hive.

Clipping queens' wings is all right if you an experienced hand and can watch your bees and look for the queen the moment a swarm commences to issue. Under these circumstances clip by all means, and now how shall you clip? The bees are very keen at detecting a foreign scent and especially dislike it if on a queen therefore you should avoid touching her person any more than necessary. Therefore, after having found her take her by one wing and clip it half off if you can. If you cannot, to advantage, cut this wing cut the other half off. Some will without thinking, imagine the wings clipped of both sides would be better, but such is not the case. If the bees show an inclination to pile of the queen to sting her to death, smoke them and shake all bees off a comb and let the queen run on it; by the time the bees reach her she will be calm and normal in her movements, and all danger will be passed.

It will also be remembered that a queen is impregnated when on the wing, and only once in her lifetime. Cases have been known where a novice has clipped a virgin's wings to keep a colony from leaving the hive. This means the destruction of the colony, for the queen cannot take wing to be impregnated, and she being unable to produce anything but drones, the colony must perish; therefore, be sure your queen has been fertilized before you clip her wings.

From the New England Homestead.

THE APIARY.

GOLDEN ROD AND ASTER HONEY.

N many parts of the country, the roadsides and waste places are covered in the fall with Golden Rod and Wild Asters. Of Golden Rod there are many species and of the latter, often called Frost Weed, several sizes and colors, and most of these yield honey. Coming so late in the season, when there is little room to store it and bees are quieting down for winter, the

honey is not usually obtained as surplus.

To secure a large crop of fall honey. Italian bees or the yellow races are the most suitable as they work later in the season and with more

than black bees. To rouse them from the winter quiet—a state they are then approaching—part or all of the brood combs are removed and sheets of foundation put in their places. The desire for a winter's supply of honey and the work on the foundation stimuthe bees' energies to the utmost, and as that as combs are drawn out and filled they may be extracted and returned and again extracted as often as filled. By removing what is thered often, the bees are kept at work as long as the flow continues. In this way one bundred pounds per colony have been obtained where but few hives are kept. As this draws out the vitality of a colony and calls forth energy that would have been available in the spring, it may be wise to strengthen such colonies before wintering, unless they have an abundance of

Rev. J. W. Shearer of Tennessee once commenced in the spring with one colony, increased to five and extracted five hundred pounds of aster honey, besides leaving a full supply in each hive for winter.

In this location, this honey, as a rule, is not obtained except in brocd combs, and as it is excellent for winter stores, is allowed to remain. My Cook apiary is where there is much runout land grown up to weeds and brush. Here Golden Rod and Asters are very plenty. Being was built on all sides; with this protection they venture out many times, when if the hive were exposed to the strong wind they would rehold off until late. Here bees have never failed to get enough late honey for winter stores.

At the beginning of the flow last fall the colonies were almost without stores but very populong. All brood combs not containing brood Were removed, leaving from four to six combs was removed, leaving from four to somethinds full of brood, nearly all of which was capped. The vacant space in the brood change. chambers was filled with dummies and surplus boxes containing drawn-out combs placed above, the him the hive covered with chaff cushions and the entrance made rather small. After a hard trost I examined them and found that nearly all had from 12 to 20 pounds of honey in section boxes, two-thirds of which were nicely bealed two-thirds of which were nicely sealed, the remainder uncapped and but partly filed. The brood combs were solid with honey, with 12 heas to cluster with the exception of a space for bees to cluster in the in the exception of a space for the Golden centre combs. The honey from the Golden Rod coming first, most of it was stored below in the room made by the fast hatching brood. The flow from Asters came after, and

as the space below was mostly filled, much of this was stored above.

The honey in some boxes nearest to the center of the cluster was two-thirds Golden Rod with Aster honey about the edges, and was thick, well filled and finished; that farther away was clear Aster honey, nicely finished and very clear and handsome; that farthest from the cluster was poorly filled, unsealed and thin. The wax cappings at this time are quite yellow from the pollen in the wax. Had I given less room in the brood nest and frequent attention, I should have secured less honey below and more in boxes, but the colonies would have needed more stores for winter.

The result shows that the obstacles in the way of producing this honey in the comb may be overcome. It also shows what is possible in a better season or in a still better locality. Although less in amount will be taken in boxes than in the extracted form, it will be worth more money.

C. E. Watts, of Rumney, N. H., in 1886 increased from one colony to six and obtained over one hundred pounds of honey, mostly comb, all but about twenty-five pounds of which was gathered after Golden Rod blossomed. Others in Virginia, Maine and the West have done as well.

If but one or two brood frames or foundations are allowed below and a few sections of drawnout comb above, and as fast as finished are removed and replaced by others, a large number
may be secured. There is little danger of the
queen laying in sections at this season. The
proper amount of space below and above to get
the best work and all the pollen below
instead of above in boxes, will be learned by
experience. At this season boxes of drawn-out
combs should always be used instead of founda-

A late-reared queen will have considerable brood late in the season at a time when there is usually little or no e. This is a great help to force the honey above, and if the bees of another Italian colony are united to these, success will depend only upon the weather and the secretion of nectar. Aster honey is a pale amber very bright and clear, and in flavor is delicious. That trom Goleen Rod is thick, darker and stronger in flavor. When extracted it is generally obtained mixed. Both have a rank, weedy odor when first gathered. When the summer flow has yielded no surplus, I believe it will pay to secure this late crop in comb, even if all colonies have to be given sugar stores for winter. The latter should be stored and sealed in warm weather and be ready to give when the other is removed. Instead of following this plan extensively, it may be best, in your locality, to try it the first season with but one or two colonies.

SAMUEL CUSHMAN.

Pawtucket, Providence county, R.I.

From the Bee-Keepers' Record.

THE SEASON IN SCOTLAND.

FE are now at the close of the third week in July, and have not yet taken a single pound of honey. Our bees gathered fairly well from raspberry blossom and thus bred up to stocks, but the terrible weather of the first fortnight of July made if unadvisable to extract any. We have practically no clover this season for miles around, a result due partly to the scorching summer of last year on this dry soil, and partly to the absence of snow in winter. We have had very few swarms, but have now got splendid stocks ready for anything but starvation. We removed four to the glens on the 14th and were glad to find plenty of newlybloomed clover there, and to see our stocks increase in weight a good few pounds before evening. The only stock supered with sections was the one that first came to full strength, and this was one of our two buried stocks. They had no brood at all when taken from their winter repository, but they have built up in a remarkable manner. Bad as things have been they had two crates of sections partly sealed when we removed them to the glen. One of these we gave to another strong stock, replacing it with an empty set to allow more ventilation while travel-

We have heard of very few localities where any finished honey has yet been taken, but as clover is pretty rich in many districts and very late besides, and as the weather is now all that could be wished, we anticipate that we shall have some more cheering reports before another month.

Everything promises fair for a good heather season which will be more fully taken advantage of than ever before, owing to the failure of the early harvest—the heather does not seem to be late as it got an early start in spring, and the late rains insure, with fine weather following that there will be a full bloom. The heather bloom is on the new growth only, and this is quite flourishing.

Those who purpose removing the heather should see that all bars are firmly secured either by being fitted with W. B. C. Ends and weighted down by crates of sections securely fastened above, or by being wedged together with half-inch square blocks hung between the frames by nail heads to the rabbets—wide shouldered frames if tightly jammed and weighted as above travel all right. The top should be open except for a piece of thin scrim, and the doorway full length fastened with wire cloth. One of the stocks we carried over fifteen miles on hilly

roads last week had an upper storey on will only one crate of sections in it. The scrim was fastened over the upper storey, leaving half astened over the upper storey, leaving half astened over the upper storey, leaving half astened over the super storey leaving half as come above the super into this space all way, and we verily believe that it is possible to way, and we verily believe that it is possible to convey bees in their regular hives for long in one of the convey of the convergence of the way seems at all. The gentle jolting of the van seems lull them to rest provided the ventilation be have often carried stocks many miles with few of their belated inmates sitting quietly the floorboard outside the door.

Persistent bad weather should, however, and arouse inquiry as to the amount of stores, combs of syrup may have to be given to prevent starvation. And yet we have only fed one stores a swarm hived on foundation.

HOLY LAND.

URING our detention at Jaffa, occasioned by a violent storm which prevented out embarkation on the day appointed for the commencement of our voyage by to Syrian coast to this city, we were enabled and make exploration into various matters connected with this key to the Holy Land; and I hope the incredulity of your readers will not be called out when I tell you that there are in the famous groves of Jaffa 500 gardens and the enormous aggregate of 800,000 orange and lemon trees from which there were last year exported and Europe co. Europe 20,000 boxes of oranges of the peculiar oblong, lemon shape now so well known in land, besides an enormous number of smaller round oranges not adapted for distant exports tion, but extensively consumed nearer home. Out of this enormous exportation and extensive consumption, showing the vast extent of the groves, there has arisen another special industry in the collection of orange-blossom honey from 500 bee-hives, under the control and manager ment of five brothers, very sensible men raffs came from Germany. On our arrival at land the air was perfectly laden with the perfume of orange-blossome orange-blossoms, on which was being displayed the activity of the activity of, I suppose, some millions little active workers, who were

"Gathering honey all the day
From every opening flower."

The bee-farm is located on the margin of the groves and Plain of Sharon, but in addition this extensive farm of orange-blossom cultivators, this extensive farm of orange-blossom cultivators, these spirited five brothers have established these spirited five brothers have established there are not the hills of Judea, where wild thyme gives another opportunity of gathering that of Jaffa; the wild-thyme honey is brown, that of Jaffa; the wild-thyme honey is brown, while the orange-blossom honey is white.

Honeys I ever tasted, whether that of the heather

of scotland, the white or brown honey of Switzerland, or the far-famed Hymettian of Athens, Indiver tasted any so delicious as that of the orange-blossom honey of Jaffa, of which last year 30,000 lbs. weight was collected. This year as with many crops of agricultural and other produce, there is a falling off in the supply, owing to the long, dry season of the district. Nevertheless, I was so impressed with the value of this article, and its new feature of industry, that I purchased 100 lbs. for distribution amongst my home friends and the connoisseurs in honey, and especially with the view to the opening of a new feature of commercial enterprise which the bee-farmers earnestly desired.

In addition to this interesting information relating to the orange groves, I learned from the same informant (to whom I have referred) that special colonies are now being planted in the plains of Sharon, and all round this old city of laffa. Four of these colonies have been establish. by the eminent bankers, the Rothschilds, who have bought lands and have built houses upon them, one of which colonies has been especially provided for, and is occupied by, poor lews driven out of Russia. In other cases German settlers are located, and one colony in particular, at Sarona, on the Plain of Sharon, is appropriated to the keeping of cows for the supply of fresh and pure milk and butter to the inhabitants of Jaffa, thus realizing the old interesting ideal of a "land of milk and honey."— Extracted from a letter in the Glasgow "Herald" signed Thomas Cook.

From the American Bee Journal.

Eating Honey.

LDUCATING THE PROPLE TO THE USE OF EXTRACTED HONEY.

OUR years ago last June I began the keeping of bees, and since that time myself and family have not known what it is to be without honey in the house, and on the table—eating it almost three times daily during period. We always ate and preferred it separated from the comb, and whatever I produced in the comb was sold to those who predicted it in that shape. I always considered them, however, more nice and particular in ment, as to that which was best; for if comb better, and it requires but a brief trial in the fact.

Let those who have been "wedded to their idols", so strongly as to eat nothing but comb those, and who have been swallowing large quantities of the unpalatable and indigestible

stuff called "wax"—which, by the way, is only a receptacle for the pure nectar which is secreted in the flowers—discard it for a time and resort to the use of the pure, clear and clean article, known to the bee fraternity as extracted honey; and after using it three months, if they do not admit that their digestive organs have not improved, and they teel better, and it was the honey they were after, after all, I shall have missed my guess, and still be inclined to doubt their judgment as to that which is good. Let them try it and report.

It has been said before, and said so often that it scarcely needs repeating, that the leading objection to extracted honey, by those uneducated in the mysteries of the art of bee-keeping, is the fear and suspicion of adulteration.

"Tis pity; pity tis; And pity 'tis, 'tis true."

Now if the consumers of the country (ignorant: through no fault of theirs) were educated to the fact that there is no such thing as adulteration at the present time; that glucose, sugar and other saccharine substances formerly used to adulterate honey, cost almost as much as the pure nectar itself, and that those unscrupulous enough to do the mixing, could not make it a success from a dollar-and-cent stand-point (which is about the only thing that would induce them to engage in it), they would soon begin to think differently, and this blight or curse—which was hung like a black-winged messenger of despair over an innocent fraternity for so long a period, would be at once dispelled, and its stead a new era be inaugurated in which that much-maligned, but never-to-be-praised article, extracted honey, would occupy its proper niche among the products of the hive.

The difference in the price of comb and extracted honey at the present time is too great, and it is due to no other cause than the suspicion of adulteration. Here in Kansas City comb honey is retailing for 25 cents per pound, while they retail just as good an article of extracted for 121 cents. To come down to the real merit of the two-and it is by merit that we arrive at value-the extracted honey is worth the most, pound for pound; and when you buy a pound of extracted honey you get 16 ounces; but it is different when you buy a section of comb honey (it is sold by sections here). The retail dealer would always rather have a 24-pound crate that weighed only 22 pounds, than one of full weight, because in that case he makes two pounds of honey to the crate clear, besides his profit; so that when you buy a pound of comb honey you get about one ounce of wood, one ounce of comb and full one ounce short weight, leaving you only 13 ounces of honey.

only 13 ounces of noney.

Now why should 13 ounces of honey, because it is encased in comb and wood, bring as much in the market as 32 ounces of the pure nectar, thrown from the comb? Surely there is something wrong. And I cannot help thinking that most, if not all of the trouble, is due to the name—"extracted honey." The name is so closely allied with extracts, essences and various artificial compounds, that it is scarcely to be wondered at—though much to be deplored—that nearly nine-tenths of the people outside of the beckeping fraternity themselves, look with a suspicious eye upon the transparent nectar display-

ed for sale in large quantities, and labeled "extracted honey.

After an experience of about five years in producing and selling honey I cannot help entertaining the belief that the word "extracted," as used in connection with honey, has worked an injury to the honey trade that it will take long years to repair, and created a doubt in the minds of the majority of consumers, that will require much time and patience on the part of the honey vender to explain away.

I can well remember when a boy, that jars of clear "strained" honey were looked upon with an eye of pride, and their contents prized as a toothsome article in many a farm-house. More value was attached to it than to that much

comb honey.

I have not written this article for the purpose of calling out any discussion upon the subject, but simply from a humanitarian stand-point. Should it set some genius to thinking, who might be able to hit upon a plan by which my favorite article of diet could be lifted from the mystery and doubt which at present surrounds it, I shall feel highly recompensed.

W. J. CULLINAN.

Kansas City, Mo.

From The Michigan Farmer.

GIVE US A CHANGE.

ROF. H. M. Wiley, apparently grown profoundly weary of the charges rung upon the "wilful lie" and "Wiley lie" by the American Bee Journal and their iteration by other apicultural journals, has written to several of them a plain, frank, gentlemanly letter, explaining how he came to make the statement relative to the adulteration of honey which has got him into such extremely hot water-a statement made upon the authority of an eminent chemist since deceased, and in part at least corroborated by chemical analyses both in this country and Europe. The bee papers have published this letter, which is certainly as much of an amende honorable as any man could well make, with comments which are hardly, in our humble judgment, at all called for. American Bee Journal admits that honey has been adulterated, but alleges it is not done now, simply because the price is so low it does not pay. Prof. Wiley's article in the Popular Science Monthly, which stirred up such a bees' nest, was written in 1881. Both charge adulteration, but differ in how it is done. It makes little difference to the consumer how he gets his glucose, if get it he must.

Samples of honey from a well-known beekeeper were reported after analysis as "apparently adulterated." Further samples were asked for and indignantly refused. Both rogues and honest men can work the "indignation dodge;" it would have been better to have forwarded other samples and stood the test. Yet the Journal

says "the component parts of honey vary much that few, if any, can positively determine even by analysis, the purity thereof." If be true—and the Journal would never fall those "Wiley ways" it has so often denounced adulterated and unadulterated seem to stand equal chance, and it is a clear case of "great and little wool.'. The Journal says honey been adulterated, and that adulteration is cult to detect; Prof. Wiley says honey has adulterated, and chemistry has detected. way the public is heartily tired of the unprofile ble controversy—which on one side at least, minds us of the minister's best sermon, which always preached when he did not want to with a fresh one—and begs, with due humility, for change.

We do not publish the above because we think it is at all appropriate, more to show what outsiders think the matter. The editor of the Michiba Farmer seems to forget that it to nearly eight years to get the animal honorable it now talks of.

SUNDRY SELECTIONS

A GOOD REPORT FROM NEW HAMPSHIRE

winter in very bad shape, but all swarms were strong enough for FRANK WILKINS .- Bees came through were strong enough for the white clover made lots of honor or made lots of honey and swarmed once each. Pelham, N. H., Aug. 8, 1888.

much this year; only one stock has made about 20 lbs. of comb hone THOMAS SMITH.-My bees have not 20 lbs. of ccmb honey, and that stock I did not allow to swarm. I increased quantity thirds by artificial swarming. thirds by artificial swarming.

Durham, August, 1888.

GATHERING HONEY FROM FIELD BEANS. HENRY PARKER.—This has again been no poor honey season. White clover was better than last year, almost a failure. Basswell was also a failure. was also a failure here this season; the seemed to be discovered seemed to be diseased; the leaves were covered all over with little beat all over with little knots or warts; a great many of the flowers were blacked. of the flowers were blasted. There is, at field date, quite a lot of based. date, quite a lot of honey coming from good beans and white clover beans and white clover. Field beans are a good thing, as the honey thing, as the honey comes directly after wood. The drought has wood. The drought has affected the cro here very little, and things look fair or a crop of honev. Aug. 6, 1888.

TOO MUCH RAIN.

Jos. Blats.—As you welcome reports from your subscribers, I beg to say that mine is only half satisfactory composition. half satisfactory, compared with last year lost 40 per cent. in wintering mostly from the out doors; started in the spring with 33 colonies 1000 Pounds extracted and 300 pounds of comb been so wet the past two weeks of July this vicinity could have given a good report; the best did extraordinarily well the first two weeks of clover black of clover black are rosy prospects for the of clover bloom, giving us rosy prospects for the and ham it has almost the opposite look now, and here we are with our little average 40 lbs, bet fair Jet fair colonies kept without increase, have Si En pounds of extracted honey.

St. Foy, Quebec, Aug. 8.

Yours is the first report we have had of too much rain; as you will observe by looking over the reports.

MAPLE SYBUP AS FOOD FOR BEES.

J. D. Morrison.—I have much pleasure in saying that I have found your Journal a very valuable and most interesting book in regard to be keeping, it gives the best methods and information that is desired by all. I commenced in the spring of 1887 with one colony and this spring I ame out strong but spring of 1887 with one colony and spring I put out six. All came out strong but They have increased to 16 and I extracted to Donnal have increased to 16 and I extracted to 10 bonnal have increased to 16 and I extracted 120 Pounds of honey. I work for increase this annuar. They swarmed and would not stay in the new box and then we swarmed them into the old box and then we swarmed but have worked box and they wont stir out, but have worked with the others for six days. I do not know with the others for six uays.

know whether they will stay or swarm; will you kindly infer they will stay or swarm; will you hindly inform me? I would like to know it haple syrup is good for winter feeding. You will great the next will greatly oblige by answering in the next

Maple syrup would, we think, be too strong food, were there not other reasons why a syrup of the best granulated sugar and water were preferable. latter comes much less expensive to the bee keeper, and we know what results may be obtained, while in the former case we do not. idea, however, to try it on one or two colonies and report results.

BIVING SWARMS WHEN THE QUEEN'S WINGS ARE

MRS. JAMES HAMILTON.—I want to tell you May. A football from you on 28th of last May A fine swarm came off, one on the 22nd of Jane, and in three weeks they had the brood chamber (1) three weeks they had the loth chamber full of brood and stores. On the 10th of July of July a swarm came from the other. The Queen was clipped, and we did not know how to manage these so well, and a good many bees went back to the old hive. The swarm was small, but the old hive. small, but they have all the foundation drawn out, and out, and nearly full of brood and stores. I have supers on the other three hives, but they do not put any honey in them. There seem to be great number of them. Breat numbers of bees in the hives and they are working mail of basswood, working well. There is plenty of basswood, they doing with the honey? All I have taken them is from them is two frames of sealed honey. How you think the do you think the frames of sealed honey. Will the queens do you think they are doing? Will the queens

that I got from you do for next year? When hiving a swarm with a clipped queen should the old hive be moved to another stand and the new swarm put on the old stand? Are they likely to swarm again this year?

Ravenshoe, August 8, 1888.

The queens will do for another year, and we are pleased to note that your bees are giving you such satisfaction. We think, considering the unfavorable season, that you have reason to congratulate yourself, because you have certainly done better than many old beekeepers. You say, "Where are they putting the honey?" If you have got three combs of sealed honey and four swarms from one, and all in good condition, you have done very well, in this the worst of all seasons within the recollection of man in Canada. storing their is just what we would like to know, or where nature is keeping it? in fact there has not been enough honey in the flowers until within the last two weeks. to enable the bees to store any surplus, but they are doing splendidly now, and we will not be surprised if we have a good show of fall honey. Be sure that your new swarms are left enough honey. to winter on, and if sufficient be not gathered you will need to feed them.

KIND WORDS.

Chas. Penton.—I beg to acknowledge the receipt of the colony of bees by express, which arrived in fine shape. They are the dearest little creatures I ever saw or handled. I have been out several times a day since I got them and scooped up a handful every time to examine.
To one who has had years of experience and practise with black bees and hybrids, a bee that has some respect for you is appreciated. As I make only comb honey and detest gloves and masks there may be hope yet. If Italians such as these will make section honey nice enough for my city trade I will have to Italianize my yards next fall.

East Aurora, N. Y., Aug. 8.

THE CANADIAN BEE JOURNAL.

BUSINESS DEPARTMENT.

Send 5c. for samples of our handsome lithographed honey labels. In printed labels we: have over one hundred designs.

PRICES CURRENT

BEESWAY

Beeton Aug. 15, 1888,
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.

FOUNDATION

Brood Foundat	ion, cut to any size p	er pound500
. "	over 50 lbs.	" "48c
Section "	in sheets per po	und55c
Section Found	ation cut to fit 34x4} a	ind 41x41. per lb.600
	ion. starters, being w	
Frames	but only three to te	n inches deen 480

BEES BY THE POUND!

We have quite a large lot of Bees which we will dispose of by the pound, at very low rates, as follows:

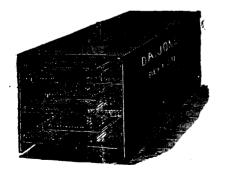
6 lb Bees and 6 good mated Queens, \$10.00 10 " 15.00

This forms a good opportunity to build up weak colonies or to repopulate spare combs.

Orders booked and filled in rotation.

THE D. A. JONES Co., D. BEETON.

FEEDERS.



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

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

1-LB. GLASS JARS. SCREW TOP.



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 hogsheads, (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

parrel. In estimating the price, we have calculated the same as for full gross lots, an allowance of 20 cents being made for each barrel and packing (they cost us 35 cents).

No. of Barrels.	No. of Doz.	Prices.
1	81	\$ 6 25
1	8 1 8 1	6 45
4	9 1	6 75
5	91	6 95
4	9 1 10	7 15
3	10	7 35
3	10½ 10¼	7 55
${f 2}$	101	7 75
1	111	8 45

The D. A. Jones Co., Ld. BEETON, ONT.

ADVANCE IN NAILS.

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.

PRICES OF WIRE NAILS.

Length of Nails.	No. in Pound	Size Wire	Price of Pound	Price of 10 lbs.
z*& 🖟 inch	7200	21	22	2 00
inch	5000	20	17	1 6o
inch	388o	10	17	1 6 0
ı inch	2069	18	12	I 05
14 inch	1247	17	11	1 00
11 inch	761	16	10	90
2 mcn	350	14	9	80
₹ inch	214	13	9	75
3 inch	1.37	12	8	70

PRICES OF BOX OR HIVE NAILS.

	Per lb.	Per 10 lbs.	Per roo ibs
ra inch	• 7	65	6 00
2 inch		60	5 50
23 inch		5.5	5 25
3 inch	. 6	55	5 25

THE D. A. JONES CO., Ld.

EBJOITER THEOLES

USEFUL GOODS.

The following is a partial list of small wares, tools and stationery, which we carry in stock. Quote rock bottom prices. There is always something in these lines you want and they can be article, except those excluded from the mail.

						_	
Post	S CENT ARTICLES.	- 1	Post	age.	Per 10 lots.	Per 2	
•	Per IU Pe	r 25 ots.	2	Clips for holding letters, etc		2 00	
	"18, brad, three assorted with-	ous. I	0	Due bills, 100 in book with stub		1 80)
1	Blotting out handles \$ 75 \$1	00	2	Envelopes, 3 packages, white, good, business	95		
.3	paper, 10 sheets note		2	Files, 3 cornered, 5 inch	90	2 10	0
ž	Dag for	88 05	3	Lead pencils, 1 doz. plain cedar			
_	Brush, round, for paint, paste	00		Fabers 581	90		
1	Or varnish 40	95	$egin{smallmatrix} 2 \\ 2 \end{bmatrix}$	Lead pencils 3 red and blue Note heads, pads of 100 sheets			
-:8 1	Crayona 45 1	10	4	Paint brush, No. 7		•	
3	Tasan	00	2	Pocket note book, 3x5 in., 125	•		
	etter openers, nickle plated			pages, stiff cover with band			
1	Memo health 20 40	ĺ	1	Rubber bands, five, large			
	cooks, 32 pages, sun]	i	Ruler, brass edged, flat. hard-			
1	Note paper, 1 quire, extra qual-	90	_	wood, bevelled, graduated			
. 2	Pad 100 shart or plain 40	80		to a inch		2 2	
1	Pad 100 sheets scribbling paper Pass books 3 "Railroad" 16 p.	00	4	School bag, medium size		2 1	0
- 4	Pass books 3 "Railroad" 16 p. Paper cover			Tacks, cut, 3 packages, 4 oz	. 30		
1	Page hori	00		13 CENT ARTIC	LES	i.	
ì	Penholders 2, cherry, swell 40 Ruler, hardwood, flet graduet.	00	2	Belt punches, Nos. 2, 3, 4, and b			
	Ruler, hardwood, flat, graduat- Ruler by, bevelled			File, 6 inches long, flat	1 25	29	
1	Ruler to s, bevelled 45 1	05		Shee knives, 4 inch blade		$\begin{array}{c} 2 \ 9 \\ 2 \ 7 \end{array}$	_
,	Ruler, for school children, three for 5c.			•			•
.~	orth his and	90		15 CENT ARTIC			
		00	10	Chisel, firmer, ½ and ¾ in	. 1 45		
	O CLAIT A DTIALEA		12	Dextrine, \(\frac{1}{2}\) lb. pkge. for pasting Glue, 1 lb. ordinary	$\overset{3}{.}$ 1 30		
	Butter stamps 3 or 4 inches\$ 75 \$1	75	Ì	Hammer, iron, adze eye			
	File, 3 corner, 3 or 4 inches 75 \$1 Ink-well, glass safety cannot	75	3	Lead pencils, 1 doz., good qual			
	anili Himse, Sallery, Calling		5	ity, Faber's 971 Note paper, 5 quires, 3 lbs.			
	ucile		. "	extra value		3 3	5
1	Oil cans, zinc			Paint brush, No. 5			
· B	Pencil, automatic indelible 75 1 doz Lead Pancils No. 859	75	6	Rubber bands in gross boxes			
1	1 611118, 110. 002,		4	For queen nursery Rule, 2 foot, a splendid line	. 1 30	3 4	Λ
•	Time books for week or month. 75		1	Screw driver, 5 inch, round bit	.		
	10 Column Column 15		ļ	hardwood handle	, 1 40)	
2	Bill fylor CENT GOODS.		2	Statement heads in pads of 100	0 1 20		
4	Bill fyles, harpshape\$ 90 2 Book of 50 blank receipts with	2 10	12	Tack hammers, magnetic	. 1 40	3 3	SU
2	a	2 00	12	Papeterie, 24 sheets fine not paper and 24 square envel			
2	D00k of 10.11	2 00	}	opes in neat box		3 3	35
3	Ultim	1 90	1	18 CENT ARTICI			10
	DOXIDO Francis St. Batti	1 90 2 10	l	Bit, best make, 186 , 14 , 156 Glue, LePage's liquid, with brus	. 1 65 h 1 44	4 (JU
	Chisel, firmer 1 inch 90	. 10	1	Oilers, automatic	. 1 60	,)	
	· · · · · · · · · · · · · · · · · · ·						

	20 CENT ARTICLES.	Postage. Per 10 lots.	10
Pos	Per 10 lots. Per 10 lots. Bit, best make, §, 7/16, ½, 9/16 1 90 4 50 Brass traps	Ledger " " 4 25 Minute " " 4 25 Complete set, Cash, Day and Ledger, \$1.25	18
8	Ebony ruler, bevelled for book- keeper	Carpenter's brace, pat. grip, 8 in 4 85 Envelopes, good, business size, 250 in box	
12	Paint brush, No. 3	adze eye	
6 1	square envelopes	SUNDRIES. Automatic Fountain Pen, the finest thing out; holds enough ink to last a week; always ready; can use any	B*
	25 CENT ARTICLES.	style of pen that suits you, and can change it as often as you wish—a marvel of cheapness—by mail, post paid, each	
6 2.	Cards, 50, ladies' or gents' visit- ing. Piries' super ivory 2 00 4 50 Duplicate order books, with	Barnes' Foot Power Machinery—We are agents for these in	¥.
8	black leaf	Canada, and can furnish the Combined Machine delivered in Toronto, freight and duty paid for	60
	Tape Lines, "Universal," 3 ft. 2 30	descriptive Catalogue to price list on application.	
8	30 CENT ARTICLES. Bills payable and receivable 2 85 6 90 Bits, best make, 10/16, \$, \$, 2 85 6 90 250 Envelopes, Ladies', square.	Copying press, "The Simplex," 1.6 most rapid and the easiest handled. Folds like a book and weighs but 10 lbs. With lock, \$5, without Hammer, No. 47, steel head, adze eye	94
4	Foolscap, 2 quires, extra quality 2 80 "legal, in pads of 100 sheets	a most substantial implement Hand saw, 26 inch, finest quality Hatchet, steel, with hammer and nail	
	edges 2 75 35 CENT ARTICLES.	PullerLawn Mowers—The new Philadel- phia pattern as made by the	
,	Bit, best make, inch	Gowdy Mfg. Co., Guelph, at prices as follows:— 10 inch cut	5 6 6
	40 CENT ARTICLES.	14 " 16 " We ship these direct from the fac-	7
	Foolscap, 5 quires, good quality 3 75 Hammer, No. 50, steel head,	tory at above figures. Letter books, with index, bound in canvas, 500 pages	1
	adze eye	Letter books, with index, bound in canvass, 1000 pages	3
	bound 8 60 50 CENT ARTICLES.	Plane, iron block	1
	Binders, Canadian Ber Journal 4 80 Blank books—	Post cards printed to order, 50 \$1, 100 Square, steel, grad. both sides, usual price, \$1.75	1
	Day book, 200 p. p. good paper, well bound	Soldering outfit, consisting of soldering iron, scraper, bar of powdered resin	

D. A. JONES, Pres.

F. H. MACPHERSON, Sec.-Treas.

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

BEETON, ONT.

Manufacturers of and Dealers in Apiarian Supplies

OUR CIRCULAR SENT FREE ON APPLICATION.

Publishers Canadian Bee Journal.

Fine Book and Job Printers.







Our trade in queens grows greater each succeeding year, and we seem to be giving better satisfaction as well. We endeavor to raise queens which will produce good honey-gatherers irrespective of breed or race.

We pay much attention to the class of drones with which our queens come in contact.

The annexed table shows the prices at different seasons, of different varieties. These are, of course, subject to change depending upon the supply and demand. All changes will be noted in the CANADIAN BEE JOURNAL :

MONTH.	Untested	Tested	Selected	Virgin
May	1 50	2 50	3 00	
June	1 00	2 00	3 00	0 60
July	1 00	2 00	2 50	50
August	1 00	2 00	2 50	50
September	1 50	2 00	2 75	i i
October	i		3 00	

Three at one time, deduct 10 per cent; six at one time, deduct 20 per cent.

EXPLANATIONS.

We are not, owing to our high latitude, able to sell queens before May, nor later than Oc-

Untested queens will be ready for sale as soon as mated, and before they have had a chance to prove themselves.

Tested queens are those which have been proven as to race and honey-gathering qualities. Selected queens are chosen because of color,

size and honey-gathering qualities.

Queens cannot be shipped unless the weather is warm enough, except at risk of purchaser—otherwise safe delivery is guaranteed.

We replace all queens lost in transit, but not those lost in introducing.

REES.

Bees should always go by express, unless they are personally cared for en route.

We do not hold ourselves responsible for breakage or delay in transit of colonies of bees they always leave our hands in good shape. We will send out only such colonies as we are sure will give satisfaction. Our bees will be such as the queens we offer will produce.

MONTH.	Italian	Italian Crosses	Carniolan Crosses	
May	\$8.00	\$ 8.00	\$ 9.00	
June	7.00	7.00	8.00	
July	7.00	7.00	8.00	
August	6.50	6.50	7.00	
September	6.00	6.00	6.50	
October	6.50	6.50	7.00	

The above prices are for up to four colonies; five colonies up to nine, take off 3 per cent.; ten five colonies and over, 10 per cent; twenty-cash. Bees at these prices will always be sent out in the Combination Hive, and each colony will contain a good queen, some honey, and brood according to the season.

BEES BY THE POUND.

Just as soon as we can raise them in the spring, we will have for sale, bees by the pound at the following prices:—Up to July 15, 25 per pound; after that date, 90c. per pound. Orders must be accompanied by the cash, and they will be entered and filled in rotation as received. We are booking orders now. Do not delay in ordering if you want prompt shipment.

NUCLEI.

A two-frame nucleus will consist of onepound of bees, two frames partly filled with broad Two at one time, \$3.75 each—up to July 1st.

After that date the prices will be \$3 singly;
two at one time, \$2.75 each.

We can send frames that will suit either the Jones or Combination hive. Please specify which you wish. Should you prefer the middle the in either Jones or Combination hive. add proposed

of the hive, made up, to the cost of nucleus of Bees by the pound and nucleu must slways be sent by express. Orders for nuclei filled in rotation the same as bees by the pound.

APIARIAN

${f SUPPLIES}$

MANUFACTURED BY

W. T. Falconer, - Jamestown, N.Y.

Are unsurpassed for Quality and fine Workman-ship. A specialty made of all sizes of the Simpli-city thive. The Falcon Chaff Hive, with movable upper story continues to receive the highest recommendations as regards its superior advantages for wintering and handling bees at all seasons. Also manufacturer of FALCON BRAND FOUNDATION. Dealer in a full line of Bee-Keepers' Supplies.

Send for Illustrated Catalogue for 1888, Free.

W. T. FALCONER.

Bee-Keepers Guide

MANUAL OF THE APIARY.

The fourteenth thousand just out, roth thousand sold in just four months. More than 50 pages and more than 40 costly illustrations were added to the 8th edition. It has been thoroughly revised and contains the very latest in restrict to Bee. Keeping.

Liberal discount made to dealers and Clubs.

J. COOK, Author & Publisher,

AGRICULTURAL COLLEGE,

LANSING, MICH.

FOR

On good paper, printed with name and address, post paid.

CANADIAN BEE JOURNAL OFFICE,

BEETON ONT.

Muth's Honey Extactor.

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

CHAS. F. MUTH & SON.

Cor. Freeman & Central Avenues, Cincinnati

TESTED ITALIAN QUEENS

Before June 15th, \$1.50 each, after, \$1.00 each; untested, 75 cents each. Six for \$4.00. Bees for sale by the pound. Nuclei or full colonies.

For prices, write for what you want.

I. R. GOOD.

NAPPANEE IND.

COMB * LOUNDHLION |

At hard pan prices.

WILL ELLIS, ST. DAVIDS, ONT.

BEES FOR SALE CHEAP.

COLONIES OF ITALIAN BEES FOR SALE In lots of 3 or more \$6.00 each. Now is the time to send in orders for spring delivery. second to none.

Addresss

LEWIS JONES,

DEXTER P.O. ONT.

THE CANADIAN

IS THE ONLY PAPER PUBLISHED IN CANADA IN THE INTERESTS OF THE

Poultry, Pigeon and Pet Stock Fraternity. Circulation always on the increase. Subscription only.

H. B. DONOVAN, 20 Front St. East, Toronto

FRIENDS. IF YOU ARE IN ANY WAY INTEREST. ED IN

BEES AND HONEY

We will with pleasure send you a sample copy of our SEMI-MONTHLY GLEANINGS IN SEE CULTURE with a description Pair VIDE with a descri TURE, 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.

HONEY. BEES AND

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

M. RICHARDSON & SON,

Port Colborne, Ont

BARNES' FOOT-POWER MACHINERY



Read what J. J. PARENT, of Charlton, N. Y., says—"We cut with one of your Combined Machines last winter 50 chaft hives with 7 inch cap. 100 honey boxes and a grames, 2,000 honey boxes and a grame, 2,000 honey boxes and a grame have double the number of hives, etc. to make, and we expect do it all with this saw. It will do all you say it will." Catalogue F. Price List free. Address W. F. & 544 Ruby St., Rockford, Ill. JOHN BARNES 544 Ruby St., Rockford, Ill.

ECTION

We are turning out sections at the rate of 10,000 per day right along, in addition to our regular hive supply trade, and we are prepared to furnish them is any regular size and style in large quantities at very low rates.

our prices are as follows :		ďΩ
1000	- 4	22
3000	13	w
5000	20	άñ
0.000	37	50

All orders entered as received, and shipped promptness. Order early to avoid the rush. prices are spot cash. THE D. A. JONES CO., LD., ONT