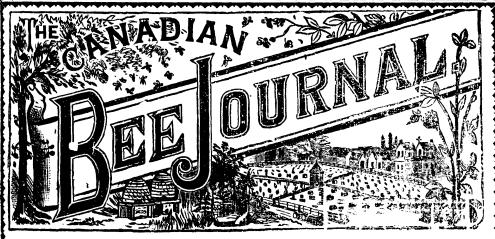
Technical and Bibliographic Notes / Notes techniques et bibliographiques

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 pag Commentaires supplémentaires:	gination.	



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

Vol. VI, No. 18.

BEETON, ONT., DEC. 15, 1890. Whole No. 278

JOURNAL THE CANADIAN BEE

Devoted exclusively to the interests of the Honey Producer.

Seventy-five Cents per annum in Advance.

ADVERTISING

STANDING ADVERTISEMENTS.

Time.		2 in.			1 col.	
1 month	\$2.00 }	\$3.00	\$3.50	\$4.50	\$6.50	\$10.00
2 months	3.00	4 50	5.50		11 (0	
3 months	4.00	5.50	7.00	9.00		25.00
6 months	6.00	9.00	12.00	15.00		40.00
12 months	10 00	15.00	20 00	25.00	40.00	75.00

Breeders' Illustrated Directory.

One-fifth column, \$8 per year; \$5 for 6 mos. All yearly advertisements payable quarterly in advance.

Condensed Directory.

Occupying one-half inch space, THREE DOLLARS per annum.

Transient Advertisements.

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 about nine words to each line.

Exchange and Mart.

dvertisements for this Department will be inserted at the uniform rate of 25 CENTS each insertion— not to exceed five lines—and 5 cents each additional line each insertion. If you desire your advt. in this will be inserted in our regular advertising columns.

This column is spectally intended for those who have poultry, e.g.s, bees, or other goods for exchange for something else and for the purpose of advertising bees, honey, poultry, etc. for sale. Cash must accom-pany advt. Five insertions without change, \$1.

STRICTLY CASH IN ADVANCE

Contract advertisements may be changed to suit the Transient advertisements inserted till forbid and seasons. Transient advertisements inserted fill forbid and charged accordingly. All advertsements received for The CANADIAN BEE JOURNAL are inserted, without extra charge, in The CANADIAN POULTRY JOURNAL.

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

Publishers.

PUBLISHERS' NOTES.

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

THE JOURNAL will be continued to each address until otherwise ordered and all arrears paid.

Subscriptions are always acknowledged on the wrapper label as soon as possible after receipt

American Currency, stamps, Post Office orders, and New York and Chicago (par) dratts accepted at par in

New York and Chicago (par) draits accepted at par in payment of subscription and advertising accounts. Subscription Price, 75c. per Annum. Postage free for Canada and the United States; to Eingland, Germany, etc, rocents per year extra; and to all countries not in the postal Union, 50c. extra per annum.

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

certain your exact standing,

Communications on any subject of interest to the
fraternity are always welcome, and are solicited.

When sending in anything intended for the journal do
not mix it up with a business communication. Use differtentspects of paper. Both may, however be enclosed in
the same envelope.

Reports from subscribers are always welcome. 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 aheald know it, tell them through the medium of the Journal BRRORS.— We make them:

BRRORS. — We make them: so does every one, and we will cheerfully correct them it you write us. Try to write us good naturedly, but if you cannot, then write to lus 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 do not accept any advertisements of a suspicious or swindling nature, but our readers must not expect us to a responsible should our advertisers not do as they agree. They will find it a good rule to be careful about extraordinary bargains, and in doubtful cases not to pay for goods before delivery.

Clubbing Rates.

THE CANADIAN BEE JOURNAL and Both Journals and premium queen...... 1 25

Job Printing

All we ask is the privilege of an opportunity to estimate. Free use of all our cuts given to those who favor us with orders. Specimen sheets furnished on application.

J. L. CORCORAN Stratford, Ont.

Breeder of Exhibition

BARRED P. ROCKS

White Wyandottes. S. G. and Colored Dorkings Imperial Pekin Ducks.

BIRDS FOR SALE AT reasonable rates.

Eggs, \$3.00 per Setting.





Address E. J. OTTER. Manager, Gerrud Incubator Co., 90 De Crassa street, Toronto.

EAST END POULTRY YARD, SARNIA, ONT.

FOR SALE-A number of fine cockerels and pullets of the following breed: Barre mouth Rocks, Silver Wyandottes; S. S. Hamburgs, W. C. B. Polish and W. F. Blk Spanish at \$1.50 to \$2.00 each.

MAMMOTH BRON. E TURKEYS Hatched in May, 1890, rom store imported from McClave of Obio, and Freeman Michigan, at \$2.50 each.

Bor 346 Sa nia, Cut.

Poultry Netting & Fencing. We an now furnish the best Poultry Netting at the

following low prices for 2 in. mesh No. 19 wire in the various widths, in full roll lots (150 feet to ro 1):

19 GAUGE. 72. in 36 in. \$3 10 4 85 6 00

18 GAUGE. ess than full roll lots the price will be 11 c sq ft

D. A. IONES CE. Lip. 4 00 6 30 BEETON, ONT

GCLDFN WYANDOTTES



White Wyandottes, Knapp & Croffets strain, Rose C. Brown Leghorns, Croffets Eckers strain Pc kin Ducks, Rankin's strain. Stock for sale at all times. My stock is choice.

IOHN A. NOBLE, Norval, Ont

T. TAPSC

Has some fine young stock of the following varieties, now ready for hipment,

Golden and Silver Laced Wyandottes, Black and White Minorcas, Black, White and Brown Lecher Barred Plym. Rocks, Park and Light Brain

WITH A FEW OF OTHER VARIETIES.

This Year's Breeding Stock

Sale, Cheap.

Prices great'y reduced between and November 1st.

Will give full particulars in and to correspondents. State plants what you want. It will facility business. >cut for Circular.

T. TAPSCO

Bramp**to**s

Light Brahmas—Six yards. Fletcher, Duke of York
Williams and Bucknam strains
Dark Brahmas Dark Brahman Three yards. Mansfield and Book

nam strains White Cochins—Two yards. Lovell strain Partridge Cochins—Three Yards. William and Washington: trains. Williams, Book

Buff Cochins—Three yards. Gold Dust strain Black Cochins—Two Yards Williams strain Haugshaus—Thee yards Croad strain
White Plymouth Rocks—Four yards
White Wyandottes...Two yards
Silver Wyandottes...Two yards
Barred Plymouth Rocks...Twelve yards.

Upham and Corbin strains

Hondans—Two yards Pinckney strain
White-Faced Black Ppanish—Two yards Modillan and McKinstry strains
Rose-Comb Brown Leghorns...Two yards

Rose-Comb White Leghorns...Two yards Forbes strain

Single Comb White Leghorns...One y2^{-d} Single Comb Brown Leghorns...Tw: ards

ney strain

I make a specialty of turnishing eggs int argelquar interior incubators at reduced rates. Send for 1890 c.

E. H. MOORE, Melrose, Mass.



THOS. BARRETT, Yards Norfolk Poultry

BREEDER AND IMPORTER OF

i angshans, S. G. Dorkings,

S. C. B. Leghorns, White Cochins, Black Hamburg

EGGS IN SEASON 33 per 13 or Per 26, Birds for sale. ANGUS, Ont.

cents will pay for 6 MOS.

Canadian Bee Iournal

EDITED BY D. A. JONES,

ablished on the 1st and 15th of each month, conablished on the 1st and 15th of each month, conne all the good things in the soicultural world as
consto the front. Think of a whole winter's
cor or a quarter. Stamps, American or Canathat denomination accepted at rar. rample
to on application.

The D. A. Jones Co., Ld., Beeton, Ont mention this paper.

Discounts for Winter Orders

wing our usual practice, we offer Tollowing very liberal discounts off ders sent in accompanied by the cash sent in accompanies the date specified. If you will sure out this discount you will see that offer is an extremely advantageous for the purchaser, amounting to a teat deal more than a good interest ay nothing of the benefit of having Your goods when you want them. in a week or two more have a ca-Pacity for fully twice as much goods as to turn to turn twice as the to turn them out better.

DISCOUNTS.

These discounts apply to everything our pricelist, excepting foundation, honey tins, glass, scales, and wire nails. p to January 1st, '91, the discount be 10 per cent.: to Feb. 1st 8 per cent.; to March 1st 5 per cent.

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

Beeton, Ont.

PRICES CURRENT.

Pay 35c in trade for good pure Beeswax, deliver at Beeton, at this date, sediment, (if any), deduct American customers must remember that there duty of 20 per cent on Wax coming into Canada.

FOUNDATION

00d ps			
. "Poundati	on, cut to any si	ze per pound	50c
"odca	over 5 lbs.		18c
" action p	in sheets per	r pound	55c
"cod Prounds	tion out to fit 34:	x4} and 4}x4}. per lb.'	00
Pramadatio	on. starters, bein	ng wide enough for A	∤8 ¢
PATTER DI	at only three to	ng wide enough for A o ten inches deep	



RIVERSIDE

Dairy & Poutry

Jas. McLaren, Prop STEPHENS ST. OWEN SOUND.

Importer and Breeder of Dark Brahmas Adams S. C. W. Leghorns, High class fancy Pigeons Lop eared Rabbits, Guinea Pigs & White Rats

Eggs from bradinas or W. Leghorns \$3 per 13; \$3.50 per 26. To parties purchasing birds, \$1 per setting. JAS McLARAN, Owen Sound.

Choice Thoroughbred Prize Winning Poultry

At a reduced rate this month to make room for PARTRIDGE COCHINS.

SILVER WYANDOTTES.

WHITE MINORCAS.

and WHITE PLYMOUTH ROCKS. or would exchange for offer.

JOHN GRAY, Tod morden, Ont.

GAME

Bantam Fanciers

NEW FANCIERS.

Ei ht Black Red Cockeres—grand ones, guaran-ted Bred from a Crys-tal Palace oup winner. Sure to pleas you; from \$2 to \$5 each. Some Fine

Brown-Reds at \$4 to \$5 per pair; also a good Pile Bantam Cockerel. (yellow legged), bred from a great English winner, fine station, color, etc. Price only \$5, these are sold on account of having too many birds; also large Game fowls. All are in fine health and condition. First money gets the bast.

F DOTY; 47 Wellington Place, Toronto

THIS SIZE AD.



3 months..... \$3 00

5 00

1 year.

Payable quarterly in Advance.

Muth's Rened Extractor.

I ertection Cold Blast Smokers, Square Glass Hone lars, etc. Send ten cents for "Practical Hints to Her Reefers." For circulars apply

CHAS. F. MUTH & SON Cor. Pres man & Central Avenues, Cincian t

PATENTS!

Fronts, Caveats, and Trade-marks procured, Rejected Applications Revived and prosecuted. All tusiness before the U. S. Patent Office promptly attended to for moderate lies as d no charge made unless Patent is recured. Sendier "INVINTOR'S GUIDE."

FFANKLIN H. HOUGH Washington, DC

BARNES' FOOT-POWER MACHINERY



Read what J. J. PARENT,
Charlton, N. Y., says—"We cut with
one of your Combined Machines
last winter 5c chaff hives with 7 incl
cap. 100 honey racks, 500 bread
frames, 2,000 loney boses and 3 grea
deal of other work This winter we
have double the number of bee
hives, etc. to make, and we expect to
do it all with this saw. It will do all
you say it will." Catalogue and
Price List free. Ad ress W. F. &

JOHN PARNES, 544 Ruby.St., Rockford, Ill.

THE SWARM HIVER

Y mail, and the AMERICAN APICULTURIST ONe year for \$1.50 Sample copies free. Address AMERICAN APICULTURIST. Wenterm, Mass. Mention This LOUBNAL.



BEES AND HONEY The Dovelaile & Brongest, Best and Cheapest BEE. HIVE for all purposes. Please of exployer and your address that we would be sample copy of Cleanings in Bee Oulture (a \$\frac{1}{2}\$ illustrated earliemthly), and a \$\frac{1}{2}\$ principle. Or A BO of Bee Oulture (a \$\frac{1}{2}\$ illustrated earliemthly), and a \$\frac{1}{2}\$ principle. Or A BO of Bee Oulture is a cyclopedia of 400 pp., \$\frac{1}{2}\$ (a, and \$00 outs. Price in citht, \$\frac{1}{2}\$. In Coots. Medina, \$O\$.

This Space b longs to



C H McRae 12 V 16 12

Poultry Tards,

DUNVILLE, ONT.

Wire choice BLACK MINORCAS and S. C. B.

and W. LLGHORNS can be bought.

NOW READ THESE!

G. L. Strickland, Marysville, Mo., vrites, on May 15th:—"Your Bees at han!. They are very nice."

Boyton Banton, Freedom, Me., write, on July 19 h, 1890, :- The two Queens I bought of y u are vital I all, very nice-enclosed find cash forv.c."

Now, Frien s, if you will write me now, I will make you a special price for a few tested Queens. Enclose stamp, and pay when Queens arrive, for cither the FIVE BANDED GOLDEN, or R ot's strain of "HONEY" Italian QUEENS. Write now,

JACOB T. TIMPE, GRAND LEDGE, MICH.

CONDENSED DIRECTORY.

Advertisements under this heading, occupying one half inch space, three dollars a year

O J. PUTNAM, Leominster Mass has for sale several fine cockerels and pullets, B P Rocke, won 1st 2nd and 3rd on pullets, and 2nd on pen at Ayr Jan. 14 to 16 1890. Figgs \$2 per setting.

MENTION THIS JOHENAL

BIRDS, Parrots, Dogs, Ferrets, Cats, Monkeys, Rabbits, Bird Eyes, Goldfish, Song Restorer, Trap Cages, Dispenier and Mange Cure. Wilson's Big Bird Store, Cleveland, Ohio.

COLE'S Black Minorcas. I have bred those birds for 5 years and they are as good as any in Canada, United States or England. 1889 pullets by 94, 94, 96, 96, 96, 96, cockerel 95, J Y Bickneil, judge Eggs for hatching \$1.25 per 18. WM. COLE, Brampton

HOLY LAND QUEYES. Home and imported raised a specialty. Bees by the pound and thank queens by the dozen. Mention this journal. GEO D. RANDENBUSH 445 Chestnut St. Reading Pa.

TTALIAN QUEENS from imported of home bred honey gatherers. Each 75c. six \$4.00. Order now, pay when queens a rive. W. H. L.L.W.S. Lava a, Seta tian co. ark.

TRIEND. Look here! Haban Queens icr sale: untested 45 cts. each; tested 85 cts each; one frame brood 50 cts; three-frame nuclei, with Unitested queen \$2; with tested queen \$2.5c. E. S. VICKERY, Hartwell Co. Ga.

OO COLONIES of Italian bees for sale with young queens and plenty of stores, hives holdis frames chaff sides and 2 division boards making double ends. Write for prices stating quantity required. G: A: DEADMAN Druggist etc., Brusseis, Ontario.

END your address on a postal card for samples of Dadant's foundation and specimen pages of "Th Hive and Honey-bee," revised by Dadant & Son edition of '89. Dadant's foundation is kept for sale in Canada by E. L. Gould & Co., Frantford Ontario CHAS, DADANT & SON, Hamilton Hancock Co. Ill.

POULTRY-MEN-Do not order your winter circular or in fact any kind of printing until you have first asked us for samples and estimates. The D A SONES CO,, Ld., Beeton.

BEENEN Should send five cents for Samples of our lithographed honey Labels. The D A Jones Co. 1 ceton

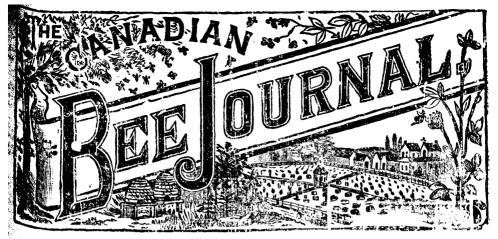


\mathbf{WHIUP} LEGHORNS

My mating this season gives me a fine lot or young Cockerls which I will sell cheap, also one two year old cock, a grand lird.

Write for prices and get the best in America

R. H. MARSHALL DUNNVILLE



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

Vol. VI, No. 18.

BEETON, ONT., DEC. 5, 1890.

WHOLE No. 278

THE CANADIAN BEE JOURNAL

ISSUED 157 AND 15TH OF EACH MONTH.

D. A. Jones,

EDITOR-IN-CHIEF.

F. H. MACPHERSON

ASSOCIATE EDITOR.

EDITORIAL.

HE report of the proceedings of the twenty first annual convention of the North-American Becke per's Association, held at Keokuk, lowa. On the 29 31 Oct., is just issued in pamphlet form, by Thos. G. Newman & Son, Chicago, of whom it may be chained for 25c.

It is to be hoped that there will be a large turn-out at the coming annual meeting of the Ontario, Beckeeper's Association, to be held at St. Cutharines. January and . We expect to get some particulars before this issue of the Journal goes to press.

As any word of improvement in the health of the Rev. L. L. Langstroth, is always gladly received by readers of from his letter to E. R. Root, acknowledging the receipt of the N. A. B. K. A. donation, the following sentence: "I am still in a feeble and suffering condition, although much better than I have been for nearly two years."

This will be the last number of the Canadian Bee Journal which we will issue before the Christmas season is upon us, and we take this opportunity of wishing our readers one and all, and to the fullest extent possible, A Merry Christmas and A Happy New Year.

The British Bee Journal, under the heading "Eminent Beekeepers," gives a sketch and engraving of Mr. Thomas B. Blow, one of England's leading supply dealers. It will be remembered that Mr. B visited Canada a couple of years ago.

Diagrams illustrating bee-culture and the relation of bees to flowering plants are advertised by the British Beckeepers Association. These are printed in four colors, and are recommended by the Science and Art Department, South Ken ington. They are drawn by Frank R. Cheshire, the author of B es and Beepkeeping, and are published by the B. B. K. A. We can supply these charts with key for \$2.50 per set.

There is every prespect of the North American (late International) Backeepers' Association becoming an incorporated body under the laws of the State of Illinois, in which case, we do not see how it can well be called an Inernational body. Is there no law by which its incorporation can be had at the hands of Congress, thus making it more what its name signifies.

GENERAL.

For THE CANADIAN BRE JOURNAL, Contraction—Divisible Brood Chambers

EFERRING to the article of Dr. G. L. Tinker, on page 348 of your JOURNAL, in which article he gives a pretty clear outline of the special features of my invention secured to me by letters patent, dated Sept. 29, 1885, which patent you own in the British possessions of America, allow me to quote the following, giving citations, etc. At the time, Dr. Tinker had a patent hive called the "Victor," and in different numbers of the American Bee Journal for 1885, the following advertisement appears:

"The Victor hive is operated upon a new principle by which the sections are placed in vertical lines with the brood frames, continuous passages being affected in a practical manner. It may be arranged for any Langstroth frame, has been fairly tested and is the best hive made, for comb honey. May be used for extracted. Send for my 24 page catalogue and price list."

This was just before the issuing of my patent and the mailing of my books and circulars giving illustrations and descriptions of my new, patented, horizontally divisible, brood-chamber hive, which I had then secretly tested for three years. My book, mailed at about this time, contains, among many others, the following paragraph relative to the subject in question:

The above out will aid us in describing our new hive; a hive which in many features, as well as its system of management, differs from anything of which I have ever seen or heard, although I have read nearly all of the books devoted to bee culture, and have nearly every copy of all the periodicals ever published in the United States, upon the subject."

"In viewing the cut, you will notice that the brood-chamber, as well as the surplus department, is composed of two or more

HORIZONTAL SECTIONS,

or departments, each containg a full set of eight frames, each department being not only "reversible," but each part perfectly interchangeable with every other."

"After having enjoyed the immense advantages accruing from the Tiering system as applied to surples cases, the idea came to my mind, that equal advantages could be realized from the application of the same principle, to the break application."

"But this is not all. In practicing the 'contraction merced,' and trying to overcome its imperfections, while enjoying its many advantages, I was firmly impressed that it would give us

much more perfectly and completely, the results desired, if we could make the contraction by taking away the top of the brood-chamber, rather than its sides."

"Now we use in our brood department one case, or two cases, at the same time we are using five combs, or eight combs, with the old hive, when practicing contraction. The new hive and its system of management is a great improvement over the old, for the following reasons:"

"1st. When contracting the new brood-chamber we divide it horizontally instead of vertically, taking away its top, rather than sides, giving us all the advantage of a very shallow hive, with brood close up to the top bars, and directly under all parts of the surplus case. This extremely shallow brood department settles the brace-comb problem, as with it, the bees will build scarcely any of these braces, on the tops of the upper bars of such shallow frames."

"2nd. We make the capacity of the ten L frame hive, to five L. frames, almost instantaneously, and without exposure to robbefs should there be any abroad."

"If, however, others may differ with me, preferring hives other than the standard Langstroth, if they will use two brood cases they will have just such a hive; the bee-space between the two sets of frames serving as winter passage-ways through and among the combs. It becomes obvious that the brood department of this hive can be made in one story, of any length, breadth or depth, preferred; and while losing the advantages of tirring and interchanging in the brood department, the other advantages enumerated, may be enjoyed."

"The system of interchanging, admits of using two sets of the frames in the brood department, if any should so desire, and whatever number is used, it enables the bee-master to kep his surplus cases and honey-board, always next to his brood."

"After three years of careful experimenting, I much prefer to have my brood-chamber no larger than two cases at any time of year, and no larger than one case after the colour swarms, till up to the time the queens capacity is equal to more room, the followin: spring; a time when the use of such capacity will give us strong colonies of surplus storing. I have found the advantages of contracted brood-chambers to be so great, that I much prefer to use them at all times when a greater laying capacity given the queen, is of no special value."

Father Langstroth, porhaps to day the best posted bee-keeper in the world, regarding inventions in bee hives, both new and old, penned the following for the American Bee Journal of May 2, 1888.

"I am strongly impressed with the great ad-

sined by one of the leading features of Mr. Raddon's inventions and system of magement to the Divisible Brood Chamber."

The above sentences prove conclusively that ather Langstroth recognized at once the signality and newness as well as the superiority the divisible brood chamber. This is all.

JAMES HEDDON.

Dowagiac Mic.

Fixed Versus Hanging Frames.

READ AT THE A. B. K. CONVENTION.

BOUT the time that Mr. Heddon's divisi-

ble brood chamber was made public, and the merits and demerits were discussed through the papers, we ordered of the inventor one of his hives. Bees were gotten into it as soon as possible; and almost every time I had occasion to go into the apiary I would manipulate that hive, try the "sbake out function," handle the separate frames, etc. While I was not particularly struck with the advantages of the divisible brood nest, or the thake out function, I was greatly surprised at the rapidity and ease with which these little closed end-frames could be handled.

I have, through Gleanings, related some of experiences in raising bees. Whenever it the they dit. Frames had to be fixed up so that they could not be shaken about, or else, without fixing, such careful driving had to be resorted to, at it usually took three or four hours to make the trip back, when it ought not to have taken Over two hours. And then there was all the spent in fixing the frames. Indeed, our president, Hon. R. L. Taylor, in convention at Columbus, Ohio, before the association said tomething to this effect: "I do not see how any same man (speaking of the hanging-frame hive), can tolerate such a rattle-box." The rethank struck me at the time as being very causbut the more I thought of it the more I be-Came impressed with the truth of the compari-A hanging-frame hive is, to a certain extent, a rattle box.

Another thing: I had trouble in getting the boys in our yards to space the frames properly. Beginners would invariably space them too near together, or too far apart. The result would be, combs bulged, and others thinned down or than all, was the nuisance of interchanging them. Then, too, in buying up bees, a great farmer bee-keepers weuld not take the trouble to space their combs rightly. You may give them printed instructions, written books, and

when you visit them tell them how far to space, and yet, as a general thing, they will make poor work of it.

When I contrasted the smooth and even appearance of the little Heddon combs, and the often irregular ones of the average hanging. frames, and the inconvenience of the latter in moving. I hardly rested easy. I was well aware that a great majority of the bee-keepers-at least of the West-were using and advocating the hanging style; and it seemed to me that I should be wasting time in experimenting, or even investigating into the subject. I know that Elwood, Hetherington, and those other nammoth bee-keepers, used closed-end frames, similar to the Heddon; that Elwood said he could handle the Quinby as rapidly as any one could the suspended Langstroth. Although I had great respect for anything coming from the pen of Mr. Elwood, the statement seemed to me utterly preposterous; and yet, when I came to handle the Heddon frames out in the yard, it did not seem so impossible after all.

I reasoned in this way: If what Mr. Elwood says is true—ves, and I might say almost all others who have used closed end frames—is it not possible that those who are using frames not fixed are losing many advantages that might accrue immensely to their benefit by the use of fixed frames? The hanging style without fastening will not bear moving, except with careful driving, good roads, and steady horses. There are a few who have all these conditions under perfect control. What we want, then, is frames at fixed distances, that will give us true combs—no burr-combs—and, perhaps, most important of all, ease of manipulation.

Without any disposition to repeat what I have already said through the journals, I will simply state, in order to bring the matter more clearly before the reader, that I personally saw Mr. Elwood, Mr. Tunicliff, Mr. Hoffman, and several other bee-keepers using fixed frames, handle them just as rapidly, and perhaps more so than you or I can the old style suspended; and, along with that they have all the other advantages that come with their use.

I believe that the bee-keepers of the West have generally thought that Elwood and Hetherington, and all their colleagues, using fixed distances, were either greatly behind the times, or else so conservative that they would not change their frames even if facts and figures were against them.

But right here just take note of this: These men with their fixed distances somehow manage to handle large apiaries with less help than ourselves. If they had a cumbersome, awkward system, they could hardly do this. On

the other hand, as their method of raising honey differs only in the fact that they use fixed distances, while we do not, coes not that fact point pretty strongly that in this lies the secret? Elwood manages over 1000 colonies with only two assistants in the height of the honey season. Mr. Hoffman manages 600 colonies almost alone, though I believe he has some one to help him in the height of the season. I may be mistaken, but I do not believe they could do this were they using the hanging frames.

Were I to attempt to show just how to economize in labor, I would fail; but with the reader's indulgence, parhaps I can give an inkling. Mr. Elwood and other gentlemen have propolis like all the rest of us, and the bees stick it to the uprights or closed ends, as one may call it, ocming in contact together. But to reduce this to the lowest possible amount, some, like Mr. Heddon, use some form of compression. Mr. Elwood uses the longed cord drawn a way as to squeeze the such together. Others frames tightly sort of wedge in connection with a follower. To separate the frames they use a small screw-driver, or one of A. I. Root's small ten cent knives; and the way they handle th se implements is a marvel. Scarcely before you are aware of it, they have the frames all loose and possibly cut of the broad-nest, and before you can recover from your surprise they will probably show you the queen.

Well, how do they do it? Mr. Elwood and Mr. Hoffman both did it, when circumstances called for it, picking out four or five frames at a time-that is, at one operation-setting them by the side of the hive, and they might then return them severally or collectively at one operation. The great point where they seemed to gain over us is, that they will handle their frames collectively; whereas we are obliged, as a rule, to handle them one by one. We, after putting the frames in the hives, are obliged, as a rule, to finger each one separately; and if we do not happen to space them right, we are oblifted to space them again, to get in the last frame. With fixed distances you can set them in the hives promiscuously, push on the outside one, and crowd them all up together; and - of course there is plenty of room to get the lasframe in, and finally the fellower.

Mr. Elwood uses no brood-nest proper. He has two panels, each covering the two outside frames. He simply removes one of the panels, and then pulls the frame which he does not wish to examine, towards himself, and then very quickly lifts out the frame he wants, with a space of two or three inches in which to pull it out.

Perhaps some one will say, "Oh, well if we

were in New York state we would show them that we could get along with hanging frames." In reply to this I would say that, were you to draw a load of bees on hanging frames over the New York state hills, and over rough and stony roads, a few miles, it would be a miracle if you had anything else on arriving at your destination than a mass of mangled and dead bees, and the combs all pushed up against each other. Remember, that locality, in the matter of frames, does make a big difference as to the kind used.

The question then arises, whether beekeepers in prairie sections of the country would gain anything by adpting fixed frames. I think they would. The recent discussion of the matter of burr-combs shows that exact spacing is an important factor; and I know from hundreds of combs that I saw in apiaries where fixed frames were used, that truer and better combs were the result.

I am aware now that what I have said argues pretty strongly for fixed frames. But we must not lose sight of the fact that what one beekeeper-yes, what hundreds of them like-we might, on careful trial, repudiate; and, taking things, all in all, it would be a very foolish thing to advise that all beckeepers at once abandon the o'd suspended frame, without itsfixed distance, and adopt fixed frames. The probabilites are, that there wil always be used as many of the one as of the ohr tes's by beekcepers will do ile the matter. Many b eleepers are of many minds. Many Christians are of different beliefs as to technical points. We cannot, very well, at least for the present, have them all in one church; neither can we, if we would, induce all beekeepers to use one style of frame. But it is wise for us, I think, to consider the matter, experiment on a small scale, and then draw our own conclusions afterward.

EARNEST R. ROOT.

For THE CANADIAN BEE JOURNAL.

December For 1889.

S a means of comparison we give below a memorandum of the weather as it was recorded by a friend a short distance from Beeton for the month of December, 1889. We shall try to give the record for January, 1890, in our next issue so that the whole month will be available for comparison:

The month open d with good sleighing and very cold weather, snow having fallen on the 27th, 28th and 29 h of Novembe, to the depth

of about a foot on the level, although drifted badly in many places.

- 1. Fine, good sleighing.
- 2. Thawing rapidly.
- Rained heavily during the night, changing to frost and snow.
- 4. 3 degrees below zero, sleighing very rough.
- 5. Raining and snowing alternately.
- 6. Fine, mild weather.
- 7. Beautiful warm day, snow going fast.
- 8. Raining hard all day.
- 9. Fine day, snow gone.
- 10. Fine day with rain at night.
- 11. Fine and mild.
- 12. Fine, roads very muddy.
- 13. Fine, cold, ground frozen hard.
- 14. Hard frost, light fall of snow.
- 15. Fine mid day.
- 16. Been raining all day.
- 17. Raining, roads impassable.
- 18. Heavy fcg and rain.
- 19. Fine, cloudy.
- 20. Raining hard all day.
- 21. Light frost during night, fine mild day.
- 22. About an inch of hail.
- 23. Fine bright day.
- 24. Raining hard all day.
- 25. Fine and warm as May.
- 26. Rain, turning to snow in evening.
- 27. Light frost and snow.
- 28. Fine, mild.
- 29. Heavy rain.
- 30. Cold, blustery.
- 31. Fine, very cold—no snow.

W. F. Moore.

Cookstown, Dec. 8, 1890.

For THE CANADIAN BRE JOURNAL. Observations.

CAN'T for the life of me see why so much fuss is made over so many trival little things in bee-literature, and in the conduct of the journals which depend on the pursuit of bee-keeping for their living, such as nom-de-plumes, putting the names of the writer at the beginning of each article, etc. It would seem as if some of those who write in such a strain, have decided that they must know who writes an article before they will take the trouble to read it, and some articles they wouldn't read at any price, just because the right name wasn't at the head of the article. Away with such childishners.

Perhaps you will remember that I found fault with the "hole-and-corner" mode of electing officers at the Brantford meeting of the Inter-

national. I wonder if there was any improvement this year, so that every member could have a say as to whom the new officers are to be?

I observe that Dr. Miller has started a column of "stray swarms" in Gleanings. I venture the opinion that it will be an interesting page.

Earnest Roct says that this last meeting of the U. A., B. K. A. was one of the best ever held, I must confess that from the report I have seen I did not think so. It seemed to me that there was too much time taken up with "Associations—Past and Present" and some other flowery nothing.

I wonder, in this connection, if it was money well spent for the O. B. K. A., to send a representative all the way to Keokuk. The Americans pay but little heed to anything Canadians want, and they gobble up all the offices and honors worth having.

If Bill McKinley continues to live till the World's Fair comes on, I should like to know what good it will do Canadians to go to the trouble and expense of making a big exhibit, but I tell you we could just teach our American cousins something in the way of putting up a honey show.

I was much interested in what was copied into the C. B. J. from the British Bee Journal, about flour as a pacifier in uniting bees. I intend to try it myself in the spring, and I fancy a good many others will, too. Wouldn't it do as a method of queen introduction? Why not open the hive, give the bees a good dose of flour down between the combs, and then drop the queen down in the hive. Somebody try it on a queen they don't value.

OBSERVER.

For THE CANADIAN BEE JOURNAL.
Sundry Comments.

SEND you herewith some items on which you may put any heading you choose, but I will try and make the remarks which some vriters would spin out to a four-column article, as short as possible.

HONEY BOARDS.

Firs:, I can consider honey-boards very useful, but very few use them properly. Since I ne d no more increase I keep them off until I strain queens powers of laying prety well and I then shake the bees and queen down and put

the honey board over the top of the first storey so as to be rid of all brood before much extracting is done. I endeavor to have the brood all sealed at least.

BEEKREPING ON PAPER.

Next comes beekeeping on paper, which advices the keeping of all kinds of honey separate. It takes all summer to ket honey thick enough above honey boards, and Dr. Tinker is the only man I ever saw beat this. He will get there while some of us are sleeping.

THICK TOP-BARS.

There has been a great ado about thick and wide top-bars. I always used ξ inch square and find them plenty wide enough. You will find a heavier top-bar very much in the way while uncapping. The bees also can run out of the way much more quickly. On the Langstroth frame I use a $\frac{1}{2}$ inch side-bar with one two-inch wire nail down through the top bar of the end; try one and see how strong they are corner ways. They are quick to nail, and I never saw a bit of comb built past them to the hive and you cannot split the frame while jerking off bees.

HEDDON HIVE FOR WINTERING.

Mr. Pringle says the Heddon hive would be a poor wintering hive on account of the joints in the centre. You said it would be too cold. Well, practice and theory do not chime. I have not lost a pint of bees in three or four years out doors, and it is the crack that does it. Mr. Corneil will score a point. You see how bees can close and expand light through the frames as it were. Mr. Heddon and I were corresponding seven years ago about a seven inch frame, when he made the fatal plunge of his new frame. I considered the hive and frames too small, but it would take a whole Bee Journal to state times and ways a seven inch frame has been before me, without sending for them; with eight frame hive I am using them-and winter out doors in two storeys. Mr. Dadant has been there, and I want at the least, 12 Langstroth frames for the queen; 10 is too small.

CONTRACTION FOR WINTER.

Talk about contracting for winter, Life is too short, and a hive like the above will go right through till June without unpacking or feeding, and give the queen room enough all summer. But Dr. Tinker slips in the honey board in the right place, I think. Now, Mr. Jones, you often tell us to crowd up the frames in the spring. Just wait till we look at the question. For two years I have taken one frame out of a hive and spaced the remaining seven to about 13 inches. When I got my first swarm I thought I would examine the hive, and found that it had been left all spring in that

state, so I do not go much on squeezing bess

WINTERING OUTSIDE.

For many years I thought I would build, cellar or bee-house, but after an experience of ten years in a cellar, and wintering outside, I much prefer the latter, I will tell you a few things which I can back up here in our climate. If you are bound to winter in the cellar you must pack in the spring, as our springs are getting more windy, colder and drier, every season. Two years ago my outside hives were full of new honey and were sealed before we dare set the colonies out of the cellar and this was all on account of a few very fine days in April. Remember I can cellar bees as well as anyone I ever saw, but the change in setting out is too sudden and they cannot stand it.

NO WIRED FOUNDATION FOR ME.

Let me say that I never used wired foundation and much less need it, seven-inch frames. Manufacturers of foundation might just as well make it a little lighter. Many combs with a space below, and o'd thick drone comb can be done away with by cutting off 2½ in. below and nail the bottom bar right on again, thus stopping that bee space, which is more bother to sweep bees out of than all the rest of comb.

If any one wants to object to anything I have said let them do it through the C. B. J. so that I may both feel it and sée it.

CHARLES MITCHELL.

Molesworth, Dec. 8, 1890.

We tried the inch top bar, and found the same objection that you mention. For uncapping we decided long ago for our use, we would not want a top bar wider than the comb built by the bees; of course by having the side bars narrower, you can hold your hive down to side bar and uncap up even with the top bar, but with properly constructed honey boards, we think wide top bars We are will be found of no advantage. not troubled with bees building behind the side bars, and if the spacing is correct, no trouble need be anticipated from that. We think that where brace combs are built behind or between the sideb aus and sides of hives, as the case may be, it will be found on examination that the space is too wide. Bad workmanship in hive making often causes the bees to try and repair the difficulty by filling up the unnecessary space with brace combs Recognizing the bee or a few cells. space between the first and second bee chamber in the Heddon Hive, as to

wintering, we found it an advantage tather than a disadvantage, as the bees contract and expand along that crack, going between the various ranges of comb as they desired, and it the crack for winter was wider than this it would be no objection, as far as we can see. You make a good point when you mention the packing of bees in the spring after being wintered indoors. We believe that it will pay to pack them, taking one year with another, better than many other things that are done in the apiary, and considered absolutely necessary.

For THE CANADIAN BEE JOURNAL.

Brant Bee-Kaepepers' Association.

HE fifth annual meeting of the Brant Bee-Keepers' Association met in the County Council rooms, at the Court House, in the city of Brantford, on Saturday, Nov. 22nd. Present,—D. Anguish, J. R. Howell and wife, Thomas Burket and wife, Cyrus Kitchen and wife, Miss Bowers, Miss Ash, George Barber, C. Edmondson, G. Springsted, C. Flanders, A. McMeans, A. Malcolm, C. Ramey, S. Dickey, F. Pipe, C. John son, R. Tailor, T. Ivov, Miss E. Ramey, Miss Harley, W. Philips, L. Petery, Mr. Steadman, R. Shellington, and Mr. Horseman.

After the report of the Secretary was read and adopted, the following officers were elected for the coming year: President, G. Barber; Vice-President Miss Ash; Secretary-Treasurer, D. Anguish.

The papers read were, Apiarian Exhibits, G. Barber. The Best Method of Wintering Bees, D. Anguish. Mr. C. Edmondson was to have read a paper on Which was the most Profitabe, Comb or ExtractedHoney, but not having prepared one he addressed the meeting, and told them what his experience had been.

It was brought out in the discussion, that the Fublic locked upon and believed that honey, when candie I, is adulterated with sugar; but it was a mistake, the majority of the members prefered it to become candied.

The meeting was a profitable one to those who were present. The attendance was greater than ever before, and many new ones enrolled themselves as members,

The retiring President, Mr. J. R. Howell, was appointed a delegate to the Ontario Association. He thanked the members for the honor conferred upon him, and gave the members some good, sound practical advice in regard to their Association.

D. Anguish, Sec.

CHLORGFORM FOR QUIETING.

Will you be so kind as to advise me of your mode of administering chloroform and the results. My object is to bring the matter to the attention of a beekeepers' association which will shortly be held in this county.

F. Toews.

Old Town, Greene Co., Ohio.

We take a small barrelled smoker and place an ordinary sized sponge that will just fill the barrel; we then take another one of similar size and put on about a teaspoonful of chloroform, slip it in, then another sponge on top of it. Thus you see we have two sponges without chloroform one above and the other below. Ordinary rags would take the place of sponges, but would cause a waste of chlorform. We then give a little puff of the chloroform in at the entrance of the hive, squeezing the bellows from five to ten times, according to the strength and size of the colony, and the same in the top. This merely stupifies. the bees and takes the fight out of them; we then shake them from the hive which we wished to take them from into the one they are to be united with. short all the bees that were to be united are shook into the one hive, and as they rouse up in a few minutes we close up the hive and give them a few more puffs of chloroform. This will usually suffice, but if no honey is coming in, especially just after a failure of the honey harvest, we would recommend doubling the dose of chloroform, as they are sometimes inclined to quarrel a little after they come to or rather after the effects of the chloroform passes off. is only necessary to give them sufficient to keep them stupified slightly, that they may have no disposition to fight. Keep them in this state for an hour or We have also used chloroform occasionally where bees were killing off the drones, to prevent it till we had time to remove the queen to stop them. This is usually done in colonies in which we keep our choicest drones, and sometimes much neglect our queens that were being fertilized in the hive till bees would commence driving out the drones. We found it especially valuable in maiting fertile workers with other colonies, and in introducing queens to fertile worker colonies.

CAPPINGS.

CUT FROM A VARIETY OF COMBS.

Close Spacing

R. BOARDMAN, of Townsend, O., has experimented a good deal in the direction of close spacing to prevent burr combs, and he sums up the result of his experience, in a late isssue of Gleanings, as follows:

t. It prevents, or very much reduces, the tendency to build burr combs above the frames. In some colonies, tested where a close bee-space was preserved above the top bars, as well as between them, no burr combs were built at all; but where a wide space was allowed above the frames, more or less combs were built.

2. It secures the combs built of uniform thickness, smooth and even with the frames; conse-

quently,

3. It makes them available for brood to their extreme edges.

4 It increases the capacity of the hive without enlarging it, in my case, one comb. 5. While the capacity of the hive is increased

for brood, it is diminished for bees, and, therefore, crowds them out into the surplus apartment; and for the same reason,

6. It enables the bees to cover and protect more comb surface, and consequently to rear

more brood and to build up faster.

7. Where natural comb is built it prevents the building of drone comb to a great extent. will be seen that, in close spacing, the building of natural comb has some decided advantage, as the bees adjust or space their comb centres throughout all their slightest undulations, in a more perfect manner than it is possible to do by any artificial means. The great importance of this is apparent.

One important test yet remains—that of bees building burr combs, and I have set about trying to disco er some reasonable answer.

One dollar will give anybody who wants them two papers, which, if taken singly, are worth 75: each—The Canadian Bee Journal and Canadian Poultry Journal.

MANUM'S BEE CANDY.

While at A. E. Manum's, Ernest Root saw some bee candy, that is so soft that it meets with the approval of the bees. As Ernest says, one trouble with the Good candy is, that it hardens when sent to a colder climate. Mr. Manum adds glycerine, which keeps it soft and pliable under any and all circumstances. The formula for making is:

Eight spoonsful of coffee A sugar; one of wheat flour; one of glycerine; two of granulated h no . First mix he flour with the sugar, then ad take gly erine and horey. Let it simmer on the sove until the sugar is dissolved, and ten remove to c ol.

Could you make a nicer present to a beek eping freind than a copy of THE CANADIAN BEE JOURNAL for a year? See in another paragraph how you can do it for 25c.

OUR FOUL BROOD INSPECTOR AS VIEWED BY AN ENGLISHMAN.

How small we should all feel to think that the opinion of "X-tractor" who lives "in the hut" in the British Bee Journal was not asked as to whether it would be safe for us to allow our Inspector to run around the Province inspecting—bees spreading the disease, as that worthy insinuates. For the information of our friend we may say, that we do what we do and what they do over there in England too,—send the leaflet and the Inspector as well. But why pay more attention to the item. Any reasonable man knows that for one hive to which he might carry the disease, he will cure one hundred. And if Ontario bee-keepers are not troubled with any more foul brood than the Inspector carries them, they will never lose much from the disease.

They are progessing at a rapidirate with foul brood in Canada, I notice by your extract from the C. B. J., and ominously enough the article is headed "The Inspector's Work." Yes I think a great deal of it will be his work, performed of course in all innocence and meaning well. He examines eighty one apiaries and finds foul brood in 350 stocks, and then, to use his cwn words, rushes on to other places. Let us fancy here a Government Inspector finding 350 cases of small pox in eighty one families, and then rushing off, visiting every house he can find and inspecting them! He would surely carry about spores of the disease (his clothing being fomites), and those who were free woul i prohably not be long so. In this old and ba kward(!) county we havellong ago stopped the expert thus spread. ing the pest. He is the County Inspctor. They may well find yard after yard fairly rotten with disease. Well, I suppose I oughtn't to find fault without suggesting a remedy! Why not ask them to take a lesson from our custom as practiced by the Eds. B. B. J .-- let their Inspector stay at home and report on pieces of comb sent him from suspected apiaries, burning the infected bits, and enclosing a leaflet ofprinted instructions as to treatment. As far advanced as we consider ourselves in medical science in the fin de siecle, I thoroughly believe our medical men's visits contribute in no small degree to the spread of zymotic diseases; the precautions they take are paltry in the eyes of-X Tractor.

TAKING AWAY THE HONEY AFTER THE HARVEST.

Dr. Miller thinks that the experiment we have been trying to a small extent may lead to something. In Gleanings he says:

The C. B. J. reports two cases in which a cluster of bees without combs or stores has hung a good many days in the fall "without visible means of support," but bright and lively. It raises the question as to whether it may not be a good plan to keep bees in this condition "between the close of the surplus honey harvest and the putting of the bees into winter quarters."

H. Alley and E. L. Pratt agree that colonies heavy with stores at the close of the honey sea-Son consume these stores, and are no better off in the fall than those that were light. Alley **Bays, "We have come to the conclusion, that, at the end of the honey flow another season, we shall remove nearly all the honey from the broad combs, and thus compel the bees to make their own living from day to day atrikes me that this plan for retarding broodrearing and also in economizing the consumption of stores will be successful. If necessary to feed back in the fall, the honey will be on hand for the purpose." This is close in line with D. A. Jones' swarm hanging with no combs. It may lead to something.

If you are a friend to THE CANADIAN BEE JOURNAL, now is the time to prove it. Read the offers.

KERCSENE FOR PROPOLIS.

A writer in Gleanings says, that the handiest way he has found of getting Propolis off the hands is to have a small cup of kerosene handy. A few drops will "cut" the gum very satisfactorily.

We are opposed to giving away silver spoons and gegaws as premiums. We want the CANADIAN BEE JOURNAL to sell itself. If it isn't worth the money without having to throw in a silver thimble, why, we'll, reduce the price, instead of giving the thimble.

WHICH WILL DO THE BEST WORK—A COLONY ALLOWED TO SWARM (INCLUDING THE WORK OF THE SWARM), OR ONE KEPT FROM SWARMING BY HAVING THE QUEEN CAGED OR KEMOVED.

The allove question was asked through the Question Box of Gleanings, and the answers are extremely varied, the majority believing, that all things considered, the best results will be obtained if the colony be allowed to swarm. Of course the length of the honey season

has much to do with the matter. Mr P. H. Elwood says:

"This will depend on circumstances—principally on the honey harvest, whether early or late, and whether you remove and return the queen at the proper time. Caging the queen in the hive is a lazy substitution, and will not kill the swarming fever. I have said that a swarm without a queen would work with greater energy than one with a queen, but having a desire to swarm."

Ernest Root comments on the replies as follows:

'These answers are interesting, and I believe P. H. Elwood hits the nail on the head when he says that a swarm without a queen will work with greater energy than one with a queen having a desire to swarm. Granting that bees will work more energetically after they have swarmed, and are in their new home, it is very possible that the same bees have lost time just preparatory to swarming, and while the swarming ing impulse was upon them; and Mr. Elwood's point is, that, if it should be taken away fro.n them entirely, they will average better. This is an exceedingly interesting and practical question, and if swarming can be controlled in some such way in our out apiaries, as Mr. Elwood and Hetherington do, it means that we can dispense with hired help to watch them, or, in the absence of such help, the loss from runaway swarms.'

Does 25c. look big for THE CANADIAN BEE JOURNAL for six months? and yet new subscribers may have a trial trip at that rate. You can send two or three names as well as not.

CRYSTAL HONEY.

This is the heading of a recipe which came into our hands the other day, and we publish it for the edification and amusement of all:

Take ten pounds of good moist (brown) sugar, three pounds soft water two and a half pounds of bee bread honey, forty grains of cream of tartar, twelve drops of the oil of pepermint, half an ounce of gum arabic, ten drops of the essence of wintergreen. Put them into a brassor copper kettle, and let them boil for five minutes. Then take two teaspo insful of pulverized slippery elm bark and mix with one pound of water, then strain it and mix into the kettle. Take it off strain it and mix into the kettle. and beat up the white of two eggs and stir them in, let stand two minutes. then skim it well, and when nearly cold add one pound of pure bee honey, and so on for larger quantities. By adding more slippery elm bark to a proportionate quantity of water, the manufacturer can make it as cheap as he pleases, as a small quartity of slippery elm bark will thicken a pailful of water to the consistency of honey.

N. B,—What we mean by bee bread honey is that made by the bees in the fall of the year to subsist on during the winter, it being much stronger than that made in the spring. If that cannot be procured, honey in the comb will an-

swer the same pupose by putting in one-half pound more than there is given in the recipie but it makes considerable difference in the price.

Did you ever see any unfair comments in the CANADIAN BEE JOURNAL on other supply dealer's goods?

UNITING BEE IN FALL.

G. M. Doolittle gives minute directions in the above matter in a late issue of Gleanings. Though methods have been often given before in the C. B. J., there may be some points in the following which will be of interest:

"I have just own uniting up some weak colonies of bees, or, rather, large nuclei, as they would be more appropriately termed; and I like the way I did it so well that I thought the readers of Gleanings might wish to know how it was done. In the first place, the queens in a part of the colonies were taken away to fill late orders: but if I did not wish to use the queens not needed in the united colonies, I killed the poorer ones, as I considered them; for, so far as I have practiced this plan, I find that queenless bees are less inclined to quarrel, and are more disposed to stay where put, than are those having queens. Having the queens disposed of from the colonies which are to be united wai! three days to a week (three days in any event, so the colonies may realize their queenlessness) for some cool cloudy day when it is from five to ten degrees colder than is required for the bees to fly, when you will find the bees are clustered compactly, something the way they are in win-When taking the queens away, take all the combs from the hives but three (the three which contain the most honey), and spread these combs about three fourths of an inch apart, setting them about two inches from the side of the hive so that the bees may be all clustered on these combs instead of hanging to the sides or any part of the hive. The hive which is to receive these bees and combs is to be also prepared beforehand, by taking all the combs but three or four, those being left being the ones having the most honey in them, said combs being placed close to one side of the hive.

When the right day arrives, light your smoker and put on your veil, for in following the pl n described you may not be able to use the hands to get a stinging bee off the face as you otherwise would; for doing a part of the operation both hands will be so employed that you cannot use them at anything else. Now go to the hive having the queen, and uncover it giving the bees a little smoke to keep them quiet, and leaving the you can set the other hive copen so that frames right in without any hindrance. Next go to ones of those that you took the queen from blowing plenty of smoke in at the entrance while uncovering the hive. Blow a few puffs of smoke around the combs and over them, when the smoker is to be laid down the two front fingers placed between the two first frames near their ends, the large fingers between the second and last frames, while the third and little fingers are placed beyond the third frame. Now close

up with the thumbs and all of the fingers thus lifting the frames and cluster of bees all out of the hive at once, when they are carried to the open hive, where they are to stay, and sit down in it all together, close up to the frames of bees that are in this nive. Go back and get the smoker, and blow smoke enough on the bees to keep them down, when you can arrange the frames, division board and hive, as you like without very many, if any, bees flying, should \$ few bees stick to the hive that you took the frames out of, bring the hive to the one having the united colony in it, and brush them out on top of the frames, as they will be pretty well In doing this you will chilled by this time. have to smoke those in the united colony pretty well, or many will fly at you, for these partly chilled bees will throw their poison ont on their stings so that the scent of it will anger the bees in the united hive. If you fixed all as it should be, when taking the queens away and preparing for uniting, and smoked the bees as I have told you, there will be only now and then one that will require this last operation, as all will be Close the hive snugly clustered on the combs. as soon as you have things fixed to suit you, when you are to remove ever thing from the stank of the colony that was united with the other, so that when theb ees come to fly the first warm day they will find their old Thome is like all that looks gone. Some bee will fly or hoer over the old spot where home wis, but not finding it, will return to the united colony. In this way I never have had any quarre'ling of bees, or any queens killed; and it is so simple and easy that I like it much the best of any plan of uniting bees late in the fall.

Reader, look hear! you can get THE CANADIAN
BEE JOURNAL a whole year for twenty-five cents.
Get a new subscriber f r75c., then put 25c.more
to it, and send the \$t to us. We will enter the
new subscription, and extend your own time both
for one year.

CARBOLIC ACID TO PREVENT ROBBING.

At the last International Mrs. L. C. Axtell stated that she used carbolic acid to stop bees from robbing weak colonies. Sometimes, says she, when work. ing with bees when no honey is coming in, it will start robbing quite lively. we take a bunch of grass and wet it then take the cork out of the bottle of acid, turn it up a time or two against the grass, then mix the grass through and through to even it up, then place it round the entrance of the hive Rub the the robbers will disappear. combs and around the top with the grass.

If every present subscriber will do as we ask in another paragraph, our subscription list will be doubled. By the plan mentioned you can get your own paper for twenty five cents. But why not go snooks with your neighbor and each chip in a half dollar.

FOUL BROOD.

Read at the A. B. K. Convention.

The Ontario Bee-Keepers' Association has, I believe, two or three accredited representatives at this Convention, though but one with portfolio. But as the present membership of our Bociety would entitle us to a dozen or more delegates, this communication from me will not, I hope, be any encroachment on the time, business, or patience of the meeting. At any rate the paramount importance of the subject I wish to uring before you must be at once my justification and apology.

On looking over the programme for this International Convention of beekeepers, I am not a little surprised to find that the question most vital to them to-day has no place there. I therefore propose to step it under cover of "Volunteer Contributions," and fill the gap thus lett open.

The question I refer to as being the most serious and difficult one confronting the apiarist to-day is the "Foul Brood" question.

The other prime difficulties in bee-culture have been removed—the largest obstacles surmounted. The winter problem has been solved; the "spring-swindling" problem is solved; the evolution of the "best bee" is well under way; while a host of other minor matters have been resolved into a multitude of solutions to suit this bee-keeper, that one, and the other one.

The foul brood problem has stood the longest—a defiance to our heads and a menace to our pockets. But it too, has been practically solved, though still hot in theoretical dispute. But one good fact rightly interpreted, ought to kill a dozen dubious, opposing theories. I remember writing when at school from this copy: "Theory is worth but little unless it can explain its own phenomena"—and the idea has been useful to me. Whatever the theories of foul-brood presented, and whatever the drugopathic remeutes proposed and predicated thereon, I undertake to say here, that we in Canada, have practically solved the problem of cure, during the past season.

As soon as I became satisfied of this, I sought to convince our big cousin over there of the important f.ct, but apparently with poor success—that is so far as the periodicals and professionals are concerned. I wrote to the two leading American bee-periodicals on the subject, sending a copy of our "Foul-Brood Bulletin" to each, and suggesting that they give their readers the benefic of its contents. The contents, however did not appear, though, of course my own letters did.

Our inspector (before his appointment, however), wrote out this method of successfully treating foul-breod, and sent it to another American periodical, that number of which was to be wholly taken up with the foul-brood subject. This communication did not appear, it contained a great truth, and perhaps more valuable information for those scourged with the foul-brood, than all else that appeared in that number.

Now, "brethering," (I mean ye three editors, and doubtless all present), please bear in mind that this is not me int for an attack on you or

your periodicals. I attack brother "Jonathan," for I suspect he is to blame. That tremendously big brother of ours, armed with the Mo-Kinley Bill, is just now straightening himself up in our presence, and giving us a withering glance—"on the slant" The "sovereign" citizens of his have no doubt caught the infection, and naturally enough imagine that "no good thing can come of Nazareth," or Canada.

Be that as it may, I repeat and reiterate for the benefit of whom it may concern, that we have practically solved the foul-brood question in Canada—that is, so far as its successful treatment is concerned, and that, of course, is the main point; and we shall charge you nothing for the information of how it was done. Though you may be unwilling to import the "furrin" article without a tariff or McKinley-tax, we shall nevertheless smuggle it in to you by "Her Majesty's mail" and "Uncle Sam's post."

By this little digression we mean nothing amiss. It is only a friendly return of harmless banter which I sometime abserve coming over here, from down there. Nor do we mean to boast over our achievement in apicultural therapeutics. Our determination to give you this information how to cure foul brood does not arise from that motive. On the other hand the motive may not be wholly benevolent or disinterested. There may be a trifle of selfishness about it, but of a kind beneficial to you as well as ourselves.

The matter stands thus: Foul brood has been and is scourging bee-keepers everywhere in the Eastern Continent as well as this, and to an extent not generally known. We, in Ontario, have undertaken to grapple with it, and overcome it. We are successfully accomplishing the task, and we want our nearest neighbors were there' to do the same, not only for their benefit, but that they may not injure us. You will now perceive that our motive is both egotistic and altruistic, but for the ultimate good of both countries. In view of the fact that there is considerable interchange of bees and honey between the two countries, our solicitude is not unnatural or unreasonable.

We intend to stamp out the pest here, and we offer you the advice to do the same there, and the instructions how to do it. Though the "great guns" and the tribunes may be too high to look toward Nazareth, the poor sufferers are not, of which fact I have had ample evidence lately; and this is the chief reason why I write this letter to the International Convention of bee-keepers. Since my letters, above referred to, appeared in the American Journal and Gleanings, I have had many inquiries from the different States of the Union, and applications for our foul-brood pamphlet. I responded to all though the work was considerable.

To cover this ground, and meet this want, I shall here give in concise form the desired information—how to cure foul-brood among the bese—in a simple hygienic manner, without the aid of drug or druggist, and outside of, as well as during the honey season. Of course, during a honey flow is the best time for operating.

In the evening remove the bees and queen from the deceased clony, and place them in a clean hile, with foundati n starters. Four days

afterwards take away all combs and starters from them, and give them full sheets of foundation, or empty comb which you know to be free from the taint of disease. The colony is now cured, and will rear brood, healthy and free from the disease, until contracted again through the ingathering of diseased honey, or otherwise. The honey is the chief, if not the only medium of the contagion, and one drop of affected honey brought into a healthy colony, if used for larval food, is sufficient to start the disease. This is a very important fact, constantly to be borne in mind, in order to prevent the spread the spread of the disease. The diseased honey may be rendered innocuous by boiling, and the combs by rendering into wax, the dross to be buried.

To save the healthy part of the brood taken from diseased colonies, fill empty hives from the frames of brood, and fill the entrances securely for two or three days, attending to warmth if the weather is cool, and to ventilation should it be hot. Then open the entrance; and as soon as the healthy brood is all hatched, put the young bees through exactly the same process as the old ones, described above, give them a queen or a cell, and they, too, are cured, all the honey taken from both the young and the old colony must be boiled before it is given to the bees, and all the combs melted into wax.

To cure a fcul-broody colony in the fall, after the honey season is over, remove the bees and queen from their hive and place them in a clean hive, with as many frames of healthy, sealed honey or syrup, as may be required for winter. The combs must be completely filled and sealed so that the bees will retain the diseased honey they may bring with them, until it is digested, instead of depositing it in the combs, and so that the queen may have no place to deposit eggs until all the danger is past.

This is the simple plan of curing foul-brood followed by Mr. McEvoy, our inspector, and is invariably successful. He has treated hundreds of cases during the past season, without a single failure. Since he began his official work, in May last, under our Act, he has examined nearly a hundred apiaries and a thousand colonies. Many whole apiaries that were fairly rotten with the disease, are now perfectly sound and healthy.

By the method given, any and every form and stage of the disease, from the simplest to the most malignant, may be cured. The proof of this in its amplitude, is before us; and this is why I say, and say again, that so far as the cure of foul-brood is concerned, we have practically solved the problem here in Canada this year.

This is reason enough for my persistency in pressing the matter on your attention, for I have not the slighest doubt that when the truth becomes known to you, as it is now known to us, the disease will be found to be as prevalent there as it is, or was here. Little did I suspect its wide extent and fatal ravages, until the machinery of the law disclosed the facts.

We now ask you to follow our example in this wholesome remedial work. What did we do and what have we done? At the risk of unduly lengthening this epistle to the modern Gentiles, I shall summarise that work, though it may be a repetition of what I have previously written to the bec-periodicals.

At our last annual meeting, the fact was disclosed that foul-brood existed, and was making rapid headway in sections of this Province. We at once took steps to secure the requisite Legislation to aid us in its suppression. We went to work with a will, and within the short space of three months the fruit of our endeavor was an "Act for the Suppression of Foul-Brood among Bees," passed by our Provincial Legislature. The working of this Act goes to prove that is the best of its kind in existence, of which we have any knowledge.

Under its provisions, resisting the inspector in the discharge of his duties is a penal offence. Exposing diseased honey, comb, or other article, is a penal offence. Selling diseased bees is a penal offence; also other acts conductive to the spread of the disease and mimical to the public interests.

We have also a pamphlet on the subject, embracing a copy of the Act, modes of treatment, etc., which we induced the Government to issue as an official Bulletin, under the Department of Agriculture. This pamphlet is printed in English and German, and has been distributed among seven to eight thousand Ontario bee-keepers. "Go thou and do likewise."

ALLEN PRINGLE.

Selby, Ont.

The Review is a Review.

Like your correspondent "Observer," I have been out of print for some time. Mayhap your readers would be just as well pleased if we remained out, because we belong to that class at which some people turn up their nose and say "they are a pack of shoysters who have not the manliness to come out into the daylight, but be hid behind the bush and shoot offtheir pep-gun with the hope of annoying some one." Such I believe is not the intention of either Observer or myself. If unpalatable things are said they are said with the intention of doing good; to remind people that things may not be as they appear to them is not necessarily unjust or discourteous.

According to expressed opinions there is an opening for Review and reviewers. There is but one paper on the list of Bee-keepers periodicals that makes any pretensions to be a Review, but you, and others as well as you, declare the Review is not a review, but a "topical paper." How very hyper-critical we are been mightiven the mild spoken Dr. Miller tells Mr. Hutchinson to his face, his paper is not what its tile implies. Granted it is not, most of the other bee papers are open to the same charge. If we work away from Flint to Medina, Chicago and Beeton, we will discover in the title of their papers the same inconsistency, and will be apt

to ask the oft repeated question "what's in a name." To "Gleanings," what its name implies, Dces it confine itself to gathering up the stray heads that remain strewn over the agricultural harvest field after the respers have carried off the crop. I fancy Mr. Root would be the first to repudiate the charge, that he allows his confreres to monopolize the rich grain and contents hims If with geaning the lo se and broken h ads that lie entangled in the stubble. Work is right enough in its way, and has the dignity of age stamped upon it. But Mr. Root will not admit this is the sole work that Gleaning's does, nor would his patrons allow him to do so if it were his will. It is true that he has lately added force to such a charge by employing Dr. Miller to gather up the "stray straws" and bind them in the Editorial bundle, and by taking the reports of important meetings at second hand.

Are the American Bee Journal and the C. B. J. what their name implies?—a daily record of what happens, for I believe this to be what "Jurnal" means. They are frequently the records of a year, when they might as appropriately be called "Annuals." Witness their oft repeated "I commenced the season with so many, spring comb; increased to so many; took so much loney and put so many into winter quarters."

I venture the statement that the Review is more true to name than any other bee paper Published in the country. I assert that the Review is a review. The word means "to look back again." It means a second view-a reexamination with a view to amendment and improvement. An examination of the respective numbers of Hutchinson's paper will show that the subject matter in each is a looking back upon-a re-examination of that which has already appeared, with recommendations and suggestions by the editor and his chosen critics, With a view to improvement. It is true extraneous matter sometimes creeps into its columns, but reviewing is its main feature. Is not the very last issue a review of our bee papers It it will do good, With a view to amendment. too, if their editors do not consider themselves too clever to be taught-an error they are apt to fall into.

Well! well! when I commenced I did not know what I was going to say, and here I find myself running full tilt against some of our agricultural giants, and feebly attempting to Pale the light of our greatest luminaries, and now that I feel somewhat aggressively inclined I would like to go for some more of them.

The doctrine taught by that man Hedlon is

something startling. He tells us it pays to be honest; it is the most selfish thing a man can do. Our children should be taught that honesty is the best policy; that virtue is its own rewarder; that they cannot afford to be dishonest.

All these things being taught from a purely selfish motive, wholly pertaining to the affairs of this world. That honesty is the best policy the thief only will deny. That we should be honored from no higher motive than selfishness is a damnable doctrine. A man that is honest only because it is policy to be honest is not a safe man to trust. I suppose W. H. is honest in the expression of his opinion, so is

No. 2.

A VISIT TO MR. ALLEN PRINCLE.

During the latter half of November I took a two-weeks respite from business. and journeyed eastward to the parental abode, situate in the town of Prescott, a place of some three thousand inhabitants. There I enjoyed a rest and at the same time did up some literary work which has been in arrears for months. Coming back I dropped off at Napanee, and was there met by Mr. Pringle, to whom I had sent word of my intention to opend a day with him, in response to former kind invitations. Getting into a comfortable covered buggy, which was drawn by a neat little iron gray pony, we drove about five miles to Mr Pringle's residence, which is about three-quarters of a mile west of Selby, a small post village in the county of Lennox. The roads from Napanee. were excellent for the time of year, being smooth and hard. I had rather dreaded the rough ride for I had anticipated that the roads were perhaps on a par with those around Beeten. arrived at the Pringle homestead a little after six in the evening, and I was very cordially welcomed by Mrs. Pringle. The ride had been a cold one, but an excellent hot dinner and a good warm fire soon thawed us out. At the time of my visit the members' of Mr. Pringle's household consisted of himself and wife. an only daughter, an intelligent young lady of eighteen summers, and her gov-After Mr. Pringle and I had discussed bee-matters for a while, the ladies joined us and the remaidner of the evening was spent very pleasantly in conversation, music and song.

Pringle is a thorough pianist, playing most difficult pieces correctly, and with an ease that made me envious of her Mrs. Pringle and her daughter played several duetts very nicely, and Mrs. P. sang a good old Scotch song Altogether the with much feeling. evening was one which I thoroughly enjoyed, and I trust Mr. P. will excuse the liberty I have taken in giving this glimpse of his home life. Being after dark when we reached the house in the evening I did not have an opportunity to take a turn around the bee yard (or rather the spot where the bee-yard had been, for all the bees had been put into the cellar a couple of weeks previous) till the following morning. We however took a peep at the bees in the cel The portion which was partitioned off as a bee-repository was pretty well filled up, there being something over a hundred colonies in the place, but everything was quiet and comfortable. The hives were packed one above the other from floor to ceiling and very close together. There were all the necessary means for ventilation at hand; in one corner of the room a pipe led from the cellar to the outer air, while another pipe came down through the floor connecting with the pipe of the cooking range above, and extending down to the celiar floor. At the time of our visit the thermometer stood: at the top of cellar 48° and at the bottom 42°. Mr. Pringle keeps two thermometers, one near the floor and the other close to the ceiling of the cellar.

AN ACCURATELY ADJUSTABLE ENTRANCE.

Mr. Pringle uses a rather novel kind of entrance, which he says just suits his purpose. It certainly is easily adjustable, and nothing can change it very well when the entrance has been regulated to suit the requirements of the colony. The front board of the hive is cut off so that the entrance is fully two inches high and extends clear across the hive. Now instead of using entrance blocks a piece of tin or zinc is cut the the length of the front of the hive and three or three-and-a-half inches wide, the top is turned over or rolled so as to admit of lifting up or down easily, and it works in slides on the front of the hive. Out of the bottom of the zinc is cut a strip & x 2 in., midway between the two

ends. A second piece of tin or zinc is then cut 1\frac{1}{2} x 6 in. Through the centre of this last piece is cut a slot $\frac{1}{4}$ x 4 in. and out of one side and at the end of this piece is then cut a piece 5/16 x 2 in., a and out of the other corner a similar strip is cut \(\frac{1}{8} \) x 2 in. A rivet is then used to fasten this piece to the larger one, so that it can be pushed backward and forward at pleasure, and it comes exactly even with the bottom of the large piece. When the sheet of tin is pushed close down to the bottom board, and the slide opened out to its fullest extent, the entrance is 5/16 x 2 in., and by closing this up any width of entrance can be had, and maintained accurately. In case of robbing the slide is pushed clear to the other side, and an entrance $\frac{1}{2}$ x 2 in. is thus had, which admits of ventilation and prevents the ingress of robbers; while in case of very hot weather the whole front may be used as an entrance or for ventilation purposes, by simply lifting up the tin entrance arrangement. For wintering purposes it can also be lifted up and a full entrance given.

Mr. Pringle's bee yard is located close to the house in the orchard, and in the rear is his honey-extracting house and workshop. In this house everything is kept neat, clean and tidy, and everything about the place betokens the methodical man. Mr. P. is evidently a firm believer in the adage, "a place for everything and everything in its place," and I venture the opinion that no matter how dark the night, he could without a light, go and put his hand on almost anything about the place that might be asked for. There is no question but that Mr. P. is a great worker. Besides nearly all the work of the farm, (he keeps only a boy during the winter) to which he gives his personal attention, he has a large correspondence and does much writing for the press. I have often thought that but few people were kept much busier than myself, but I believe I can make one exception in favor of Mr. Pringle, who is constantly at work.

I have nearly forgotten to mention the little forest of basswood trees which Mr. Pringle has set during the past season, reference to which was made in one of Mr. Pringle's articles in the Canadian Bee Journal. Besides those already set out, he has another large batch,

which he received from Mr. F. C. Matthews, of Hamilton late in the fall, bedded in the cellar for transplanting first thing in the spring. These are the most perfect young basswood trees he has ever seen, and he looks for great things from them.—F. H. M.

THE CANADIAN BEE IOURNAI

ISSUED 1ST AND 15TH OF EACH MONTH.

D. A. Jones, - Editor-in-Chief. F. H. Macpherson, - Associate Editor.

Beeton, Ontario, December ,15 1890

The American Boekeeper, published by the W. T. Falconer, Mig Co., Jamestown, N. Y., will make its appearance January 1st. Editorially a will be in charge of Mr. D. E. Merrill. Frien I Newman's attention is called to the similarity of the first two words in the name of this paper, with the good old American Bee Journal.

We acknowledge the receipt of a copy of the Watertown Gazette, which contains a full description of the immense new buildings of G. B. Lewis & Co., which replace those burned last spring. It is the targest building in that city and more labor is employed by the Messrs. Lewis' than by any other firm in Watertown.

Along with two copies of the A. B. C. of Strawbery Cutture, which came to hand a few days ago, was a litter of applogy from our good friend A. I. Root, which, however, was entirely unnecessary. We know how easily oversights will occur in a large business. We have not had time to look into the book thoroughly, but a cursory glanes reveals a mine of practical information regarding that most luscious of small fruits—the strawberry. There are little short cuts and conveniences mentioned in the book that are alone worth several times the Prize. Send for a copy; price by mail, 40c. Address, A. I. Root, Medina, O.

Visitors to Montreal find the printing establishment of the Family Herald and Weekly Star to be one of the most interesting sights of the town. On Publication days, Tuesday and Wednesdays, all day long there is the hum of the gigantic lightning presses turning out com-

plete copies of the Family Herald and Weekly Star at the rate of twenty-two thousand copies an hour, printed, cut and folded by automatic machinery without being touched by hand. Then there is an army of men and women operating the machines that put on the address labels, following which they are turned over to gangs of mailers preparing the papers for delivery to the post office by mammoth expresses. One of the busiest places in this country is the office of the family Herald and Weekly Star, Montreal.

Many customers are taking advantage of the big discount we are offering for present orders. The ten per cent. offer only lasts till January 1, so that order must soon be sent in to meet that date. Let us say that with the exception of foundation, all orders will be filled immediately on receipt; we are running every day and there need be no delay. Our facilities have been doubled, and we will be able to meet any reasonable demand made on us. Don't forget the date when the discount expires.

Just as we go to press we are advised by the Secretary of the O. B. K. A. that the Court House, St. Catharines, has been placed at the disposal of the Association for their use at the annual meeting January 7.8, 1891. The G. T. R. and C. P. R. will both give the usual reduced rates. A number of papers will be read, particulars of all of which have not come to hand. Dr. A. E. Harvey, of Wyoming, will present an essay on "the various kinds of bees and their respective values." Messrs. C. W. Post, D. A. Jones and others will also read papers. The foul-brood Inspector's report will be presented and will be full of interest; we hope to give a full programme in next issue.

There is great disappointment throughout the Dominion at the announcement that the publishers of the Montreal Star are too busy with their regular subscription and advertising business to allow of their completing a Christmas Star this year. These Christmas Stars are such gems that it is very generally hoped the publishers will see their way clear to continue their publication.

Catalogues Received.

A. I. Root, Medina, O.—Seventy-second edition catalogue and price list of everything in the apiary—revised to January, 1891.

E. H. Cook, Andover, Conn.—Bee-keepers' club list for 1890-1.

CONSUMPTIO

-Please inform your readers that I have a positive remedy for the above named disease. By its timely use thousands of hopeless cases have been permanently cured. I shall be glad to send two bottles of my remedy FREE to any of your readers who have consumption if they will send me their Post Office Address. Respectfully, T. A. SLOCUM, M. C., 186 West Adelaide St., Toronto, Ont.

LONDON' POUL FRY YARDS.

FOR SALE

The following Prize-winners at Detroit, Toronto and London :-

Buff Laced, Gillen, Sliver, White and W. C. B. Polands:

Golden Spangled, Silver Spanzled, Golden Pencilled, Silver Pencilled, and Black Hamburgs;

Brack African, Golden and Silver Sebrights, and Pekin Bantams.

Any one wanting show birds I can let them have winners, as I not going to exhibit at any show but the Ontario this winte. WM. McNEIL.

FANC

If you want to attend the best show in Canada attend

THE THIRD ANNUAL EXHIBITION of the

and Tet Stock Poultry SOCIETY AT MILTON, ON

DEC. 30, 31 '90 & JAN. 1.'91

It pays \$1.00 first prem um. 50 cts. second premium. It is run on Business Principles, only.

It pays its premiums in full on the . last day of the show.

It has efficiant and obliging officers.

It pleases its patrons. Send for premium list.

M. E. MITCHELL,

SECRETARY.

GUELPH P. AND P. S. A.

The Poultry and Pet Stock Association of Guelph have fixed the dates for their exhibition on the 2nd, 3rd, 4th and 5th of February, 1891. in the City Hall, Guelp.

prepared to accept all the No. 1 Honey that is offered in exchange for We ar Extrac supplie at regular catalogue prices, on the follawing terms

Put up in 60 lb. square tins.... per lb. 104c. 091c. other styles of tin.... barrels

084c. Freight in all cases to be prepaid to Beeton. We will allow 30 cents each for 60 lb. square No allowance for any other style of pack-Dark honey will be quoted for on submission of samples.

The D. A. Jones Co. Ltd.

BEESWAX WANTED

We will pay 30 cts cash or 35 cts in trade for good our Beeswax delivered at Stratfor. (sediment deincted, if any).

the best packed hive made for wintering bees out-loors. 60lb. ties nettly boxed. Shipping Crates for camb Honey or anything required by Be-keepers. few colonies of Hybred Bees for Sale at \$5 00 pre

Send for prices, Address,
J.& R. H. MYERS,
Box 94, Stratford, Ont

- "...* If you require catalogues, circulars, note anda, envelopes, or anything in the line of job finting give us an opportunity of estimating.
- * Whenever any item of interest to the cultry fraternity occurs in your vicinity, jot it own and send it to us. An envelope marked Printers Copy " will carry it for one cent.

THOUSANDS OF BOTTLES GIVEN AWAY YEARLY.

When I say Cure I do not mean merely to stop them for a time, and then merely to stop them for a time, and then the mean ARADICAL CURE. I have made the disease of Fits, have them return again. I MEAN ARADIC&L CURE. I have made the disease of Fite, Epilepey or Failing Sickness a life-long study. I warrant my remedy to Cure the worst cases. Because others have failed is no reason for not now receiving a cure. Send at once for a treatise and a Free Bottle of my Infailible Remedy. Give Express and Post Office. It costs you nothing for a trial, and it will cure you. Address:—H. G. ROOT, M.C., Branch Office, 186 WEST ADELAIDE STREET, TORONTO.

EXCHANGE AND MART

CENTS pays for a five line advertisement in this column. Five weeks fer one dollar. Try it.

BEES

WANTED.—A 1 Extracted and Comb Vercy. State how put up, if ready for shipment, quarity and lowest cash pice for pound de iver d. i DLUND J. BEBRY, Brome Corrers, Que.

GING TO MANITOBA-79 colonies, chaff hives, frames 13½ x lo deep. 59 cmpty hives, 600 frames of comb, empty frames, extractor bands, etc. \$500 cash, here. Also brooder plant for 600 chickens, beater large enough for 2000 chickens \$60 cash here. l'OSTMASTER, Cumminsville, Ont.

POULTRY Netting.—See our advt. in another col with prices. Also for shipping and exhibition Coops, with owner's name printed on the canvas. Drinking fountains and poultry supplies generally. THE D. A. JONES CO. 1 d. Secton

2,500 LBS, HONEY for sale, good quality, lighing to quantity. Also about 300 lbs. comb honey, quality first-class, for which I would like an offer. GEO. WOOD, M nticello P.O., Dufferin Co., Ont.

MENTION this Journal if you are writing about anything advertised in its columns.

A GOOD CHANCE FOR

A LIVE POULTRY MAN

St. George Poultry Yard ANGUS, - ONT.

My countation with the Canadian Poultry Journal makes it necessary for me to offer my well known Poultry Yords and entire stock and A. I quality in K. Brahma., Barred P. Rocks, S and L. Wyandottes, Black Minorcas, White P. Rocks, S. C. W. Leghorns, R. C. W. Leghorns. R.C.B.L. ghorns, Golden Wyando, tes., B.B.R. & G. Bant ams. 200 capacity incubator, Brooder, and a in ces ary appliances, for carrying on a first c ass Poultry Farm; also a 9 hives of Bees, hives frames and other necessary things for the apiary Good Dwelling House, 6 rooms, Summer kitchen and woodshed, good water under cover, milk house, dry and trost proof cellar, first class Poultry house and pens complete and in the best of continion; tools and garden implements, good young orchard, soil splendid for poultry raising, excellent for small fruits and strawberres; very abundant bee pasture continueing until fall. 3 minute walk from station. For Purticulars address

W. C. G. PETER,

Angus, Ont.

FOR SA! E or EXCHANGE—10 Simplicity Langstroth hive bodies in use one season, B. space at the top. Will exchange for 0 tramed L. hives, or sell very cheap. PullLIH H. H. MILTON, Paris, Out.

Cilland clearing sale of Breeding Pens, Light Brahmas, Dark Brahmas, Buff Cochins, P. Rocks, White Leghorns, Lengshangs and F. R. Games; also three forms, Lengshangs and F. R. Games; also three fra: d S. R. Folish Cockorels, two L. Brahma Cocks, two P. Rock Cockerels, two langeshang Cocks, one B. Minorea Cock, two B. A. Bantams, trio Aslesbury Ducks, two Pekin Drakes, Wilson Bone Hill, Webster Clover Cutter, Hot water incubator, 50 exhibition coops, S. W. BDSALL, Belkirk, Out.

POULTRY

A Fh W Silver Laced Wyandotte Cockerels for sale from American prize winning birds. Eg hatching in season. W. J. O'NEAIL, Paris, On

FOR SALE-A few Fine Buff Cochin Cockerels bens and sullits, cheap to make room, Write quick and procure the bast. Address C. D. FLEMING, Chatham

FOR SALE—A few very fine, early hatched, well grown Light Brahmas. Cockerels fom \$3 to \$5 each, and pans from \$5 to \$7. All O K stock. These are bargains. W.C. G. PETERS, Angus, Ont.

FOR SALE—We have mated, but must sell for the want of room one S. C. Brown Leghorn Cockerel, 3 hens and 3 pullets, good ones, and will produce good stock. Price \$6, ha'f value. DEWAR & MITCHELL, Milton, Ont

COR SALE—My entire stock of Black Minorcas, 13 in lets and 2 Cockerels. Guarance every sullet to score from 94 to 96; one Cockerel will sorre 35, he took ist at To: outo Exhibition. Pullets are all laying. \$25 will buy the lot. W. COLE, Brampton.

I'CR SALL—Thirty Mammoth Bronze Turkeys bred I'from stock imported this season. Mammoth Light and Dark Cochins, Siver Grey and Whi.e Dorkings, bred from imported stock. Come and judge for yourselves. JOSEPH KINSEY, Doon, Ont.

FOR SALE—4 Light Brahma Cocks and Hens, (year-lings), 25 Cockerels and Pullets; a lot of Pekin Ducks pairs and tiles, Brown and White Leghorus, old and young, cheap if taken at once. Also a p ir of lopeared rabbits. JOHN COLE, 151 Hughson at. Hami ton,

CREAT CHANCE.—A pen of Black Javas, Cock.
If three Hens, the same I exhibited at Toronto.
Five dollars buys them. Cock and six Houdan Hens
all first-class, for eight dollars. A few Pulets and
Cockerels i reals.

A. HOBBS, Bowmanville.

1) Lock LEGHORNS—cock and three hens—scored 1) at obser sound 1899, J. Y. Bicknell, judge: c ckere 1814, hen 94 hen 93 1/2, puniet 95 1/2. Took all the remains and spenals at the Industrial, 1890. Her first cock V. H. C. Prico, \$12. E. J. Otter, 90 De Grassi street, Toront).

R. C. W. LEGHORNS—two trios—scored at owen punct 94, punct 91, pun

FOR ALE—One breeding pen Light Brahmas cock sire by imported "Fidelity," pronou ced by Felch at Osen sound show; 1888, to be the best bird in Casada: 2 heas "bie one d Strain," both winners; 12 Pullets, god ones. I lice \$10 or would exchange frequency as good Dark Brahma breeding pen. DowAR & MILLHELL, Milton, One.

L'OR SA. —A numb r of White, Black and Brown I aghorn, Cockerels, al o Black Minorca cockerels and area to the soft each kind. One White Leghorn Cock scores 95; as Cockerel two years old. Will soil single bids, pairs or tries, all A 1 birds. JOHN PLETSCH, Box 26, Shake-pear-, Ont.

A S I on y intend in the future to breed Dark Brah.

A S I on y intend in the future to breed Dark Brah.

A mas a d Bantams I will sell my Blk. Leghorns and R so Comb White Leghorns cheap. See lists below with scores, &c. Parties vanting new blood in D k Brahmas out of my grand imported cock and mates should write for prices. A few for sale now. E. J. Otter, 90 De Grassi street, Toronth.

GOME very fine Scotch Collie Pups, from one of I.K.

Felch's, litches cheap; also Light and Dark BrahBlack panish, Loghorns, Wyandottes, HamburgBlack Red Game Bantams, Ducks, Geese, etc. I won
86 firsts, 97 second prizes at shows this fall, A. G. H
Luxton, Hamilton P. O., Oot.

TOR SALE or exchange—Three grand White Minorca Cockerels, a year old cock, and some splendid Pullets for sale cheap. Have won everywhere shown. Would exchange for some good Black Minorca henso pullets. White and Black Minorca Eggs in season, \$3 per 18, \$5 per 26. Write for particulars, THOS. A, DUFF, 81 Fuller st, Toronto, Ont. ORGNIZED 1874.

INCORPORTED 1879

POULTRY ASSOCIATION

OF ONTARIO

17th ANNUAL • EXHIBITION 17th

AT BOWMANVILLE, CAN.

JAN. 5, 6, 7, 8 & 9, 1891

ENTRIES CLOSE JANZURY 3RD.

J. J. MASON, Pres.

J. M. HERN, Sec'y.

The oldest—holding the Largest Number of Annual Exhibitions of any Association in America. Experienced Officers. Liberal Premiums. Four udges. The Government Grant enables us to hold one of the most successful exhibitions in America. For Premium Lists, etc., address the Secretary.

DO YOU KNOW THAT

The American Apiculturist

WILL BE MAILED FROM NOV, 1st, 1890, TILL JAN. 1st, 1892,

And our Book on "Queen Raising—Thirty Years Among the Bees," also the "Beckeepers' Directory," for the small sum of \$1.25? It is so, there are 350 pages of solid, practical facts on B e Culture, at a cost of the land one third of a cent per page. Sam le copy of Apiculturist free.

HENRY ALLEY, Wennem, Ont



W. C. G. PETER,

IMPORTER AND BREEDER OF

WYANDOTTES

Rose Comb Brown, and White Leghorns,

Sing'e Comb White and Brown Leghorns, L' Brahmas, Plymouth Rocks, Pile Games, B. B. R. and S. D. W. Game Bantams.

EGGS \$3 PER SITTING, OR 2 SITTINGS FOR \$5.

Send for Circular.

ST GEORGE POULTRY YARDS.

ANGUS, ONT.

CARNOLIAN -:- QUEENS.

I expect to continue the breeding of Choice Carniolan Queens next season, and or ers will be booked from date. No mone sent unti-queens are ready to anip. JOHN ANDREWS, Faten's Mills. Wash. Co. N.

** Whenever any item of interest to the poultry fraternity occurs in your vicinity, jot it down and send it to us. An envelope marked "will carry it for one cent.

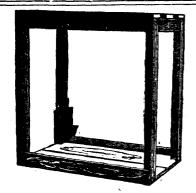
W. A. CHRYSLER,

MANUFACTURER OF

BEE SUPPLIES.

Single and Double Walled Hives, Sections, Shipping Crates, Feeders Etc. Price-lists free.

Box 450, CHATHAM, ONT.



SHIPPING - COOPS

For Exhibition and Sale Purposes.

Save money in express charges by buying fight, we made coops—weigh only 5½ lbs.

We keep in stock one size only, 20 in. x 13 in. x 20 in for pairs or light trios.

PRICES MADE UP.

Skeletons, only, With Canvas,	Each 30c, 40c.	10 \$2.75 3.75	25 86.2 8. 5	100 \$22.50 33.00
	PRICE IN	N FLAT.		

Skeletons, only, 50c. 2.50 5.00 18.00 Name and address printed on canvas 5c. each extra. \$3.00 per 100.

For Exhibition purposes, where coops are not furnished by the Fair Associations, strips are supplied, which are tacked on one side of coop, at 4c. per coop.

OTHER SIZES.

We make coops in any size desired, and shall, at all times, be prepared to quote prices. In asking for estimates please give size and number wanted.

DRINKING FOUNTAINS.

 For shipping and wa'er.
 exhibition coops, to hold one pint Each 10 25 100 15c.
 10 25 100 \$1.2

The water cannot slop out or become dirty. Larger sizes made to order. Ask for Prices.



MAKE YOUR HENS

Earn their living by scratching for it.

-TRY-

Christie's Improved Reeder

It gives the f wl constant exercise and saves you the trouble of fe ding them—they feed them e ves automatically.

Each by mail, \$.50 \$.60 Per doz., 4.00 4.80

The D. A.JONES CO, Ld.:

Niagara River and Grand River

Mammoth Lt. Brahmas & Barred P. Rocks.

STILL to the Front, always winning first place in the Sharpest competition, beating the birds that won to Toronto, London, Barrie, Detroit, Brampton, Markham So buy your eggs and stock from where the prize winners s ring from. Eggs from our prize winners \$2.50 per 13, \$4 per 26. Send for our Club circular.

AKERLY & CLARK.

ATTENTION FANCIERS!

I saall soon import from England a large number of

Buff Leghorns

-AND-

Indian Games.

Orders received until Nov. 2)th for imported birds. Buff Leghors are all the rage. Send for prices. I have some fine BLACK LEGHORNS for sale.

A.W. GARDINER, Box 1293, Springfield, Mass.

Prices to suit the Times.

A FEW pairs of Silver Laced Wyandottes and a few Plymouth Rock cockeres for sale cheap. Brown White and Black Leghorns. White and Barred Plymouth Rock, White and bilver Laced Wyandottes. Eggs of any of the above varieties. or mixed, at \$1.50 per setting, or two settings or \$

WM. MOORE,

MENTION THIS JOURNAL BOX 462 LONDON, ONT

GLEN VILLA POULTRY YARDS

A. R. MCKINLAY

IMPORTER AND BREEDER OF

HIGH CLASS PUOLTRY.

Autocrat strain of Light Brahmas. White Cochins White Plymouth Rocks, Single and Peacomb Barred Plymouth Rocks, W. F. Black Spanish. Black Minoras and Buff Pekin Bantams. Eggs. \$3.00 per 13. \$5.00 per 26. BOX 18, DEER PARK, ONT.

BROWN LEGHORNS AND BLACK MINORCAS.

WILL sell a few sittings of Eggs from my grand breeding pens this spring. My Brown Leghorns are second to none in Canada. At the Owen Sound Show I won every first and second prizes, making a cean sween. I have kept the bonors at Owen Sound for 5 years in succession on Brown Leghorns. My Minorcas are grand birds. In looking over the prize lists this winter I find I had the highest scoring Minorcas in Canada (93 to 98). Eggs trom each variety at \$2 per 15 or \$5 per 30 and will give satisfaction. Brown Leghorns, Benner's strain. Black Minorcas, Abbot Bros' strain from imported elect.

J. C. BENNER, Owen Sound
Care Polson Iron Works
MENTION THIS JOURNAL

WILL. A. LANE,

Turnerville,

Ont.

-BREEDER OF HIGHERT TYPE-

BRONZE TURKEYS

Write for priors of young birds in the fall.

CARNIOLAN - QUEENS,

From Pure and Ge the Moder's will be bred the remainder of the season at

SPECIAL PRICES.

Send for Special-Ci cular to

JOHN ANDREWS.

Iu v 25th, 1:90.

Patten's Mil, W sh Co., N.Y.

FOR TRUE BLUE

-:- CARNIOLANS -:-

See our advertisement in Aug. 1 No., of this paper.

J. B. MASON MECHANIC FALLS, ME.

THE "REVIEW."

SOME OF THE TOPICS IT BAS DISCUSSED.

was the special topic of the April . umber. "Hom to Raise Extracted Honey,"

was discussed in the May issue.

"Comforts and Conveniences for the Apiary," were named and described in June. "From the Hive to the Honey Market," was the topic of the July issue. "Marketing," Will be the Special

"Marketing," Will be the Special topic of the August number.
The "Review" is Published

The "Review" is Published monthly, at 50 cts. a year. Send for samples (free) and see if you can afford to be without it. Address Bee-Keepers' Review, W. Z. HUTCHINSON, Ed. A Prop. Flint, Mich.

MARKETING DEPARTMENT.

We can ship with reasonable promptness all orders for honey tins, at the following prices:

No lbs.	Per 1000	Per 500	Per 100	Less each
10	.\$100 00	\$ 55 00	\$11 50	.12
	. 65 00	34 00	7 00	.071
ł	. 50 00	26 0 0	5 50	.06
		16 00	3 25	.031
• • • • • •		13 50	2 75	.03
	10 50	6 50	1 40	.013
	- FA	4 00	1 00	. 01
			00001 00 m	

Pressed sorew tops and screw caps for the above tins:

No. lbs. Per 100 Per 50 Per 100 5 and 21 \$23 00 \$12 50 \$2 75 1 and 1 15 00 8 00 1 75

Most of the leading beekeepers admit that for ipping honey in bulk, the 60 pound tin, ensed in wood, is the ...ongest and best article be obtained for the purpose. The prices are: pound Tins, encased in wood, each...\$ 50

" " per 25.. 11 25
" " per 100.. 42 00

Lithographed Honey Labels.

Every honey producer knows the advantages vable from having his name on each package, and this series of honey labels are deserved popular, being handsome, bright and attive. Directions for liquifying are given da blank in which the vendor's name is to printed. They are varnished, and a damp

sponge will remove all dirt. Samples of all our labels sent for 5 cts.

ĺ	Per 1000	Per 500	Per 100
5 pound labels	\$8 00	84 25	8 85
	5 00	2 75	* 60
1 4	3 50	2 00	45
1 1	1 75	1 15	25
1 1 11 11	17	1 15	25
		55	13
Labels for tops of	tins 90	55	13
		first 100	30
Lach subsequent	100 up to 50	Μ	12
Printing name an	d address.	ner 500	75
" "	(1000	1 25

Shipping Crates for Sections.

Sample crates, glass included, made up holding 12 or 24 s ctions 3\frac{1}{2}x3\frac{1}{2} or 4\frac{1}{2}x1\frac{1}{2}		
eacn.	S.	2
Per 10	" 1	7
IN FLAT HOLDING 12 SECTIONS.	•	•
Without glass, per 10	81	Δ
" " " or	ΔīΤ	
20	2	2
" " 100	8	0
IN FLAT HOLDING 24 SECTIONS		
Without glass, per 10	9 1	5
" " 25	¥ 2	2
" " 100	19	
We keep in stock crates that hold	10	U
12 Sections	B	
12 "	ΖÂ	
· · · · · · · · · · · · · · · · · ·	Χŝ	
24 "	- 6	
1 9,1 "		
1 WE AAAAAAAAA AAAAA AAAAAAAAAAAAAAAAAAA		

The D. A. JONES Co. Ltd., Beeton, Ont.