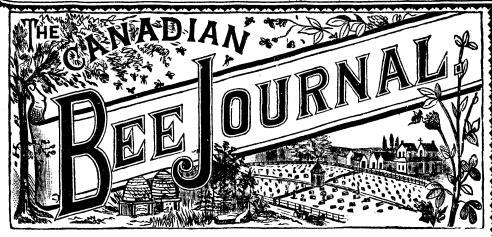
Technical and Bibliographic Notes / Notes techniques et bibliographiques

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. 22.

BEETON, ONT., FEB. 15, 1891

Whole No. 282

BEE THE CANADIAN IOURNAL

Devoted exclusively to the interests of the Honey Producer.

Seventy-five Cents per annim in Advance.

ADVERTISING

All advertisements will be inserted at the following

STANDING ADVERTISEMENTS.

Time.	l in.	zin.	3 in.	4 in.	1 col.	page
1 month	\$2.00	\$3.00	\$3.50	44 70	\$6.50	810.00
2 months						
months						
6 months	6.00	9.00	12.00	15.00	25.00	40,00
12 months	10 00	15.00	29 00	25.00	40.00	75.00

Breeders' Illustrated Directory.

One-fifth column, \$9 per year; \$5 for 6 mos. All yearly advertisements payable quarterly in advance.

Condensed Directory.

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

ansient Advertisements.

to cents per line . the first insertion, and 5 cents per

the for each subsequent insertion.

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

Exchange and Mart.

A learnisements for this Department will be inserted at the miform rate of 25 CEN'S each insertion—not to keed five lines—and 5 cents each additional line each insertion. It you desire your advt. in this column, be particular to mention the fact, else it will be inserted in our regular advertising columns. This column is specially intended for those who have poultry, ergs, bees, or other goods for exchange for something eige and for the purpose of advertising bees, honey, poultry, etc...for sale. Ca' h must accompany advt. Five irreptions without change, \$1.

STRICTL I CASH IN ADVANCE

Contract advertisements .nay be changed to suit the asons. Transient advertisements inserted till forbid and seasons. 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

We will always be giad to retwent sample of the second of

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

Subscription Price, sc. ner Annum. Postage iree for Canada and the Unite it with Bingland, Germany, etc., rocents per year extra; sud to all countries not in the

postal Union, 50c. extra per annum.

The number on each wrapper or address-label will abow the expiring number of your subscription, andby comparing this with the Whole No. on the Journal you can as

certain your exact standing.

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

When sending in an hing intended for the Journal do not mix it up with a biness communication. Use different sheets of paper.

Both may, however be enclosed in the same envelope.

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

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

We do not accept any advertisements of a suspicious or swindling nature, but our readers must not expect us to 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 THE CANADIAN POULTRY JOURNAL 31 00 THE CANADIAN BEE JOURNAL and premium queen 100 Both Journals and premium queen...... 1.25

Job Printing.

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

BEES WAX FOR SALE—Crude and Refined. We have constantly in stock large quantities of Beeswax, and supply the

prominent manufacturers of comb foundation throughout the country. We guarantee every pound of Beeswax purchased from us absolutely pure. Write for our prices, stating quantity wanted.

ECKERMANN & WILL,

Bleachers, refiners and importers of Beeswax, Syracuse, N.Y.

PRICES CURRENT.

BERSWAY

We pay 35c in trade for good pure Beeswax, delivered at Beeton, at this date, sediment, (if any), deducted. American customers must remember that there is a duty of 20 per cent. on Wax coming into Canada.

FOUNDATION

Brood Foundation,	cut to any size per pound
Section "	in sheets per pound
Brood Foundation.	starters, being wide enough for .48c nly three to ten inches deep

HONEY.

We are prepared to accept all the No. 1 Extracted Honey that is offered in exchange for supplies at regular catalogue prices, on the following terms:

Put up in 60 lb. square tins....per lb. 9½c.
" " other styles of tin... " 08½c.
" " barrels " 07½c.

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

The D. A. Jones Co. Ltd.

BESTOM ONT.

CLAMPS FOR SPRING PACKING.

All practical Beekeepers concur in the opinion that bees wintered in the cellar, should be packed on their own stands in spring, to keep them in the best condition. We are making a light clamp specially designed for this purpose. This clamp consists of a bottom board of § in. I iumber to cross pieces 7/8 x 3 in. to set hive on to allow of packing under; the four wall and a bevelled rim to cover the packing above, and arranged so as to allow of using the ordina v lid of hive for cover. To be used with 4 inches of sawdust or chaff, and will be in sizes to suit the Iones Combination or Langstroth hives, at the following figures:—

Each 5 10 25 100 75 | 70 | 67 | 63 | 60

They will be shipped in panels, ready to nail together.

GOOD BOOKS

-FOR THE-

Beekeeper and Poultryman.

The following books we can supply direct	fre	om
Booton of the price nemed enposite on	ah.	b₹
Beeton, at the price named opposite es	ЮH,	
mail postpaid.		
A Year Among the Bees, by Dr. C. C.		a E
Miller		75
A.R.C. in Rea Culture by A. I. Root		
alath	1	25
CIOCH		_
cloth,		ΩK
Rev. W.F. Clarke		25
Success in Bee Culture, paper cover		60
Production of Comb Honey, by W. Z.		
Hatchinger Done		25
Hutchinson. Paper,	_	50
Cook's Bee-Keepers' Guide in cloth	1	•
Foul Brood, its Management and Cure		
by D. A. Jones. price by mail A. B. C. in Carp Culture, by A. I.		11
A. B. C. in Carp Culture, by A. I.		
A. D. C. in Carp Culture, by A. I.		
Root, in paper		50
		10
Queens, And How to Introduce Them		
Bee-Houses And How to Build Them		15
Wintering, And Preparations Therefor		15
Bee-Keepers' Dictionary, containing		
the present defination of the same		•
the proper defination of the spec-		25
ial terms used in Bee-Keeping		-
The undermentioned books are supplied	dire	905
from the office of publication, postpaid,	at t	he.
rions the office of publication, postpara,		
nrices named		
prices named.		- 1
prices named. Allen's (R.L&L.F.) NewAm.Farm Book	4 2	<i>5</i> 0
prices named. Allen's (R.L&L.F.) NewAm.Farm Book	4 2	<i>5</i> 0
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America	\$2 2	<i>5</i> 0
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book	\$2 2 1	50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls	\$2 2 1 5	50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture	\$2 2 1 5	50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture	\$2 2 1 5	50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture	\$2 2 1 5	50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding,	\$2 2 1 5	50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etc	\$2 2 1 5	50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable	\$2 2 1 5	50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable	\$2 2 1 5	50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C.	\$2 2 1 5 1	50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C.	\$2 2 1 5 1	50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grases of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth	\$2 2 1 5	50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry	\$2 1 5 1	50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth	\$2 2 1 5 1 1	50 50 50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit.	\$2 1 5 1	50 50 50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 2 1 5 1 1 1 8	50 50 50 50 50 50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 2 1 5 1 1 1 8	50 50 50 50 50 50 50 50 50 50 50 50
prices named. Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 2 1 5 1 1 1 3	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 2 1 5 1 1 1 8 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee. Keeping, by L. C. Root, Price in cloth Bee keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit The Hive and Honey Bee, by Rev. L. L. Langstroth. Price, in cloth Standard of Excellence in Poultry Stoddard's An Egg Farm. Revised	\$2 2 1 5 1 1 1 8 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit L. Langstroth. Price, in cloth Standard of Excellence in Poultry Stoddard's An Egg Farm. Revised Wright's Practical Pigeon Keeper	\$2 1 5 1 1 1 8 2 1	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit The Hive and Honey Bee, by Rev. L. L. Langstroth. Price, in cloth Standard of Excellence in Poultry Stoddard's An Egg Farm. Revised Wright's Practical Pigeon Keeper Wright's Practical Poultry Keeper	\$2 1 5 1 1 1 1 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Felch's Poultry Culture Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit The Hive and Honey Bee, by Rev. L. L. Langstroth. Price, in cloth Standard of Excellence in Poultry Stoddard's An Egg Farm. Revised Wright's Practical Pigeon Keeper Wright's Practical Poultry Keeper	\$2 1 5 1 1 1 1 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management Quinby's New Bee-Keeping, by L. C. Root, Price in cloth Bee-keepers' Handy Book, by Henry Alley, Price in cloth Farming for Profit The Hive and Honey Bee, byRev. L. L. Langstroth. Price, in cloth Standard of Excellence in Poultry Stoddard's An Egg Farm. Revised Wright's Practical Pigeon Keeper Wright's Practical Poultry Keeper Brackett's Farm Talk, Paper, 50c. Cloth	\$2 1 5 1 1 1 1 8 2 1 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 1 5 1 1 1 1 8 2 1 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 1 5 1 1 1 1 8 2 1	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 1 5 1 1 1 1 1 2 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etc	\$2 1 5 1 1 1 1 1 2 1	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Allen's (R.L&L.F.) NewAm.Farm Book Beal's Grasses of North America Burnham's New Poultry Book Cooper's Game Fowls Johnson's Practical Poultry Keeper Poultry: Breeding, Rearing, Feeding, etcBoards Profits in Poultry and their Profitable Management	\$2 1 5 1 1 1 1 1 2 1 2	50 50 50 50 50 50 50 50 50 50 50 50 50 5

THE DA. JONES CO., -



THOS. BARRETT. Norfolk Poultry Yards

BREEDER AND IMPORTE OF

Langshans.

S. G. Dorkings. S. C. B. Leghorns,

White Cochins. Black Hamburgs.

GGS IN SEASON \$3 per 13 or \$5 at 26, Birds for sale. ANGUS, Ont.

W.T.TAPSCO

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

Golden and Silver Laced Wyandottes, Black and White Minorcas. Black, White and Brown Leghorns, Barred Plym. Rocks. Dark and Light Brahmas,

WITH A FEW OF OTHER VARIETIES.



This Year's Breeding Stock For

Sale, Cheap.

Prices greatly reduced between now and November 1st.

Will give full particulars in answer to correspondents. State plainly what you want. It will facilitate business. Send for Circular.

TAPSCOT

MENTION THIS JOURNAL

BRAMPTON, ONT

Sht Brahmas-Six yards. Fletcher, Duke of York, Williams and Bucknam strains

ark Brahmas—Three yards. Mansfield and Buck-

Dam strains

ham strains

Two yards. Lovell strain

article Cochins—Three Yards. Williams, Booth
and Washington strains.

and Washington strains.

Gold Dust strain

lack Cochins—Two Yards Williams strain

lack Cochins—Two Yards

White Plymouth Rocks—Four yards

White Wyandettes...Two yards

liver Wyandettes...Two yards

Upham and Corbin strains

Oudans—Two yards Pinckney strain bite-Faced Black Spanish—Two yards McMil-

strain Se-Comb White Leghorns...Two yards Forbes Strain

ingle Comb White Leghorns...One yard ingle Comb Brown Leghorns...Two ards Bonney strain

I make a specialty of turnishing eggs in large quart ties or incubators at reduced rates. Send for 1890 ctloque.

E. H. MOORE, Melrose, Mass.

MENTION THIS JOURNAL

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.



Poultry Netting & Fencing.

We can 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 roll):

19 GAUGE. 86 in. 24 in. \$3 10 30 in 72. in 4 00 4 85 9 50

18 GAUGE. \$3 25 4 00 5 00 6 30 9 90
Less than full roll lots the price will be 12.c sq ft

GOLDEN

WYANDOTTES



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

IOHN A. NOBLE, Norval, Ont

Partridge - Cochins

My breeding yard e P. Cochins for the year 1891 has been selected with the greatest possible care

"HANGL BR"

a superb Cockerel has been placed in command and the

LARGE HENS *EIGHT*

under his care are noted for even pencilling and abundant middle to feathering. A limited number of eggs will be sold at \$2.50 per 13 or \$4 per 26. Our club circulars free

R. H. MARSHALL,

Sec. Perfection Fancier's Club, Dunnville, 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 prize given, winning eight first and second prizes, making a c ean sweep. I have kept the honors 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 93). Eggs from each variety at \$2 per 15 or \$3 per 90 and will give satisfaction. Brown Leghorns, Benner's strain. Black Minorcas, Abdress Batisfaction. Brown La Minorcas, Abbot Bros' Address

J. C. BENNER, Owen Sound
Care Polson Iron Works Mention this

ALLEY'S IMPROVED AUTOMATIC

SWARM HIVER

Thoroughly tested and guaranteed to SELF HIVE every swarm that issues. Sample by mail for \$1.00. American Apiculturist one year and swarmer by mail \$1.50. Sample Apiculturist giving full illustrated description of Swarmer free

H. ALLEY, Wenham, Mass.

PATENTS!

Patents, Caveats, and Trade-marks procured, Rejected Applications Revived and prosecuted. All business before the U. S. Patent Office promptly attended to for moderate tees, and no charge made unless Patent is recured. Send for "INVENTOR'S GUIDE."

FRANKLIN H. HOUGH Washington, DC

CHRYSLER.

MANUFACTURER OF

BEE SUPPLIES

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

Box 450, CHATHAM, ONT.



BEES AND HONEY

The Dovetailed Strongest, Best and Cheapeat BEE-HIVE for all purposes. Iteasures been seen to be a supersonation of the seen o

Barnes' FOOT-POWER MACHINERY



BARNES, 54

Read what J. J. Parent, of Charlton, N. Y., says—"we cut with one of your Combined Machines, last winter 50 chaff bives with 7 inc cap. 100 honey racks, 500 broad frames, 2000 honey boxes, and a great deal 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." Catalegue and price list free. Address W. F. & JOHN Ruby st. Rockford, Ill.

RIVERSIDE

Dairy & Poultry

Jas. McLaren, Prop STEPHENS ST. OWEN SOUND.

Importer and Breeder

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

Eggs from Branmas or W Leghorns \$2 per 13; \$3.50 per 26. To parties purchasing birds, \$1 per setting. JAS McLAREN, Owen Sound.

CONDENSED DIRECTORY.

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

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

DIRDS, Parrots, Dogs, Ferrets, Cats, Monkeys, Rabbits, Bird Eyes, Goldfish, Song Restorer, TrapCages, Distemper and Mange Cure. Wilson's Big

W COLE'S Black Minorcas. I have bred those W. birds for 5 years and they are as good as any is Canada, United States or England. 1889 pullets 94 944, 944, 96, 96, 964, cockerel 954, J Y Bicknell, judge Eggs for hatching \$1.25 per 13. WM. COLE, Brampton

HOLY LAND QUEENS. Home and imported raised a specialty. Bees by the pound and frame 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 84.00. Order now, pay when queens arrive. W. H. LAWS, Lavaca, Sebastian Co. Ark.

TRIEND, Look here! Italian Queens for sale: tested 45 cts. each; tested 85 cts each; one frome brood 50 cts; three-frame nuclei, with Untested queen, \$2; with tested queen, \$2.50. E. S. VICKERY, Harrwell Co. Ga.

TESTED IT ALIAN QUEENS bred from selected mothers, principally of Doolittle sto-k. Prices of follows;—for those under I year \$2.50 each. shipped the 20th of April, or 2c. less each day until line 10th. Queens under 2 years old one-fifth less. G. A DEADMAN Druggist & Ariarist Brussels, Ontario.

DEND your address on a postal card for samples of Dadant's foundation and specimen pages of "The Hive and Honey-bee," revised by Dadant & Sos edition of '89. Dadant's foundation is kept for sale in Canada by E. L. Gould & Co., Brantford Ontario CHAS, DADANT & SON, Hamilton, Hancock Co., 11.

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



BEESWAX WANTED

We will pay 30 cts cash or 35 cts in trade for good de nure Beswax delivered at Stratford (sediment

ducted, if any).

The best packed hives made for wintering bees ost doors. 60 lb tins neatly boxed. Shipping Crates for Comb Honey or anything required by Beekeepers A few colonies of Hybrid Bees for Sale at \$500 per

colony.
Send for prices, Address,
J.& R. H. MYEES,

MENTION THIS JOURNAL

Box 94, Stratford, Ont

DOULTRY Netting.—See our advt. in another col with prices. Also for shipping and exhibition Coops, with owner's name printed on the cauvas. Drinking fountains and poultry supplies generally. The D. A. JONES CO. Ld. Beeton.



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

Vol. VI, No. 22.

BEETON, ONT., FEB. 15, 1891

Whole No. 282

THE CANADIAN BEE JOURNAL

ISSUED 1ST AND 15TH OF EACH MONTH.

D. A. Jones,

EDITOR-IN-CHIEF.

F. H. MACPHERSON

ASSOCIATE EDITOR.

EDITORIAL.

HE officers of the Mutual Beekeepers' Union have been reelected by large votes: President, James Heddon; Vice-President, Prof. A. J. Cook; G. M. Doolittle, A. I. Root, C. C. Miller and G. W. Demaree. General Manager, Thomas G. Newman, Chicago, Ill.

Replying to "Observer," who rather thought it childishness on the part of those who made so much fuss over "nom-de-plumes," etc., the editor of the Review says:

"Well, Bro. Observer, I can tell you why I wish to know who it is that is doing the talking. I have learned from experience that, although some editors may think the writings of certain men are worth printing, I don't think them worth reading. They may be worth something to others—to me they are valueless. Another man may discover that the contributions of some other correspondent are of no value to him. On the other hand, there are some men whose names at the head of articles are of sufficient guarantee to me that they are worth reading. Some men never have written anything that I would care to read, while others have never written anything that I didn't value. Every one who has kept bees and read the

journals for a number of years, has, I persume, had a similar experience."

We think that perhaps "Observer" was right after all, when he said:

"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 would't read at any price, just because the right name wasn't at the head of the article."

THE question of "Foundation in full sheets vs. Starters" is agitating the minds of a good many of our leading: bee-men. There are many arguments which may be advanced on both sides. one writer in an American periodical suggested that the publishers of the bee journals, who were also interested in the supply trade, were not anxious to allow a discussion, fearing the result upon their foundation sales. We are satisfied that this imputation on the impartiality of the journals was not deserved; certainly not in the case of the CANADIAN BRE JOURNAL. We do not care what direction a reform shall take, so long as it is in the best interests of bee-keepers, a discussion of the subject on its merits will always be allowable in its columns. Of course, we cannot be on both sides, and will therefore. fearlessly and independently take a stand on the side which our experience and intelligence tells us is right and best.

Our usual complement of "Cappings" is in type, but had to be held over for lack of space.

GENERAL.

POLLEN GRAINS.

Gathered from Far and Near by Observer.

I like to "talk back" at Dr. Miller. He enjoys it is much as I do.

I'd like to know if that fellow on page 58, Gleanings, is Dr. Miller's brother?

James Heddon wants his outside packing cases a dark red, in color. Good idea.

Your "Cappings Department" is just splendid. We get the "cream" there every time.

Has the Michigan association affiliated with the N. A. B. K. A. for 1891? The Ontario did.

When is Mr. Post going to give us a description of that "Whirly-go-round" he uses in his out apiaries?

The "cream" always goes with the "skimmilk" in this country, otherwise the milk-factory patron is fined.

I thought Hutchinson wanted to know the name of everybody that wrote in a journal Who's "Rambler"?

Will D. A. Jones give us his experience with the Hoffman frame. I am told that he tried it years ago and discarded it.

Twelve out of the sixteen respondents to the Queries in the A. B. J. favor 8 frame as against 10 frame Langstroth hives.

Where is the Beekeepers Advance? I haven't had my copy for the last two months. It is surely not "numbered with the dead."

I'm glad the C. B. J. devotes its space to news, instead of the use of "flesh-brush" described by "Number Two" in last issue.

If the types will make me say things I didn't write, can I be blamed, Dr. Miller? But say, im't "stray swarms" a more suitable heading anyway?

I fancy I see the beekeepers of this country refusing to sell honey only for two months in the year. Vide James Heddon's suggestion at the Michigan State Convention.

If Heddon and Masen had been through some of the Canadian apiaries last spring they would have changed their mind about strong colonies, properly wintered, spring dwindling. Of course they won't if their spring-packed.

C. J. Robinson, in A. B. J., says that "Each and every bee-brood grub can be made to develop foul-brood virus spontaneously," and that he has proved it. S. Corneil said at the late St. Catharines convention: "The microbe of foul brood is no more produced spontaneously than are pine trees or elephants." Which is right?

J. B. Hall has apparently gone back on his statement made at Brantford last winter, when he advocated cellar wintering, for I hear he has built "a little cellar around each colony," in a good many cases this last fall.

Dr. Miller can't find anyone who will "olub with him" and do away with essays at conventions. If he doesn't drop the discussion, the chances are some one will drop the "with" out of that quotation, and give him the rest of it.

I see that Ernest Root says that what the bee-keeping world wants most, is a good reversible extractor, that won't need a house with a "barn door" on to let it inside. Just wait till be sees the description of the one which was exhibited (by model) at St. Catharines, and which I suppose we shall soon hear about in the C. B. J.

[Yes, as soon as we can get the engraving⁵ made—Ep.]

It is well that Mr. Corneil left the extent to which foul-brood has been spread by the use of foundation, an unknown quantity, for the sake of those who use it; but if as he says repeated boilings "reuder the cultures sterile," why suggest the spread of the disease in this way at all. All wax is boiled at least twice before it reaches the consumer as foundation, and in many instances the wax is subject to boiling heat even oftener than twice.

Divisional Brood Chamber Hives.

N PAGE 273, Dr. Tinker says that I am

(Reply to Dr. Tinker.)

laboring under a misapprehension, and I do not know but I have been, and consequently should stand corrected. The Dr. changes his form of hive so frequently that I think he is possibly and I guess probably now using something different from that which he described a year or so ago. I supposed he was using close fitting frames, but it seems by this article that he is not.

Now, really, to be honest, I must say that I do not know as I know what "the new system of management" is. I have not heard anything about it on the part of our leading bee-keepers, nor met anyone who says he believes there is any new system, and really, to be frank, I do not myself. We all have different ways of operating, but we do not call them new systems, until we have something quite different by way of mechanical application and manipulation, and from what little I have read of the Doctor's writings lately and what I have heard other beekeepers say, I guess there is nothing particular.

ly new or sufficiently so to call it a system.

I do not think the Doctor should have come out quite as bitterly as he did and make so many statements that certainly are not correct, because I filled a couple of columns with verbatim quotations from my book published long before he claimed any new system and while he was using the Victor hive with its continuous passage ways. The Doctor is still determined to make the manipulation of two brood chambers identical with that of one brood chamber divided into two parts, each used for specific purposes. Well, that he cannot do. I have looked over all this ground, read Mr. Quinby as quoted by him, consulted my patent lawyer faithfully on the subject, and it won't go; Doctor, it won't go

The doctor does me injustice by saying that I design to lay claim to his new system of management. I claim nothing that I did not claim before he had any new system and when he was using the Victor hive with its continuous passage ways. If the two columns of solid, verbatim quotations from my book, lays any claim to his new system, why that proves conclusively that his new system is thus far claiming my invention, because I was prior, don't you see? There is no getting around this. Columns of aimless assertions will not disprove this self-syident fact.

I did not know before that the Doctor was using and recommending the Langstroth frame. I am glad if he has gone back to that, because, if nothing else, it will save all infringement upon other inventions.

The Doctor says that I patented a copied invention. That I could not do. The patent office would not allow it had I tried to do any such thing. The Doctor says I sought certain claims through a re-issue, and that I make claims that are an imposition on the bee-keeping public. One of these statements is just as true as the other. I did not seek any re-issue. I announced that I expected to do so, but later consulted more fully with my patent attorney, and he, while in Washington, looked the matter up carefully in the patent office, and said I did not need any re-issue. My patent was strong and valid enough, and would hold everything I desired or ever claimed in public print. It seems as though the Doctor did not mean to tell the truth about it. In regard to the truth of my statement above, the records of the patent office will show if I ever made any application for re-issue.

Another mistake the Doctor makes, is, I never claimed to be the author of the contraction system so far as I know. Ed. J. Oatman,

of Dundee, Ill., was the author, but he would not publish it, nor let me, until I had used it three years privately, and he had used it several more. I do not know how many before he told me about it. Then I did publish it, and another thing the Doctor is very mistaken regarding, or wilfully mistates, I published it before Mr. Doclittle did. The Doctor forgets that Mr. Doclittle and myself had a controversy about that, and that the public records proved my claim to be prior, by several months.

It would seem as though this question of the wood zinc honey-board had been discussed enough. It is a well known fact that wood zinc honey-boards were made before the Doctor invented the device of slipping the strips of zinc between the slats, which we have given him credit for, but the Doctor cannot make, and does not make, and never will make a honeyboard worth a cent, of combined wood and zinc, unless he uses my features of the bee-space and break-joint principles, one or both, in connection therewith. I think more of either one of these features than I do of the arrangement of the zinc. Perhaps I am not right, but the Doctor must understand that these strips of zinc had been tacked on both the upper and under side of my honey-board, and it is furthermore a fact that can be proved by good witnesses, that they were slid in groves in the edges of the slats by several different parties before the Doctor ever described them. However, that may be, as he was the first to print it; he should have the credit and we have always given it to him. But suppose I had patented the break-joint, and beespace principles when I invented the honey. board, about twelve years ago, and for which A. I. Root made me a present of \$100 as a token of his appreciation of the invention. Then the Doctor could not use his zinc slide system in any arrangement of any value.

The doctor accuses me of copying from Mr. Hetherington, when in reality I do not know, and never did know what kind of a hive Mr. H. uses. I never told of copying from Bingham. I mentioned the fact that Mr. Bingham's arrangement suggested to me certain things. Without occupying too much of your space I will say that Dr. Tinker has misstated dates. What was two years and was published as two years, he has called four years. I am not so anxious to have a reputation as an inventor as I am to protect my patent, and that I shall do and do it by law, and I guess there will be no trouble with the Doctor, for it seems now that he has gone back to the suspended Langstroth frame.

Another point, I never claimed to have invented the wood zinc, queen excluding honey.

board prior to Dr. Tinker's invention of it in the precise manner of sliding the zine strips between the slats in saw kerfs. I have given that credit to Dr. Tinker, and that is all the credit there is to give, because everybody knows that I invented the honeyboard without the zinc strips, before the Doctor could see the advantage of using the honeyboard, and I have described before who invented, and who should have the credit of the one peculiar method of adjusting the zinc strips, which is a very good one, and the Doctor has had his due.

Now, the Doctor says that at first he thought of patenting this device, and then concluded to give it to bee-keepers. Now the records of Gleanings in Bee Culture and the patent office show that the facts are just the reverse. He gave it to bee-keepers through Gleanings in the first place, and then tried to patent it, and when the examiners saw the article in Gleanings his patent was rejected. Now, if the records do not show this, I am mistaken, that is all, I know what he wrote in Gleanings and I am very canfident, and will wager ten to one that after giving it to the bee-keeping public in Gleanings he applied for a patent. At least a party wrote and told me so, who said he knew it. The records will show whether I am mistaken and have been misinformed or not. even it the Doctor will not own up to the truth.

Now, the Doctor knows that I did not try to deprive him of the credit of devising the saw kerfs in which to slide the zinc, as past copies of the bee journals will show, but if it should turn out that his "new system of management is not worth a straw" without a honey-board which contains the bee space or break-joint principle, then it seems to me he ought to be giving me some credit.

In the last paragraph the Doctor shows a great willingness to divide his inventions with the bee-keeping fraternity.

The old rule holds good that the least a man has the more willing he is to put it in a shake purse and divide up all round, but I understand the Doctor has a patent on his last invention and I think he has a good right to it. If his invention is worth anything he has a right to a part of the value, while the bee-keepers get the advantage of the rest, and that is what a patent means. If it is not worth anything, as I really believe, then the patent can do no harm.

Now the Doctor has a good many things to say about his inventions, and my own as far back as 1882. Now, let me quote verbatim just what the Doctor wrote to me, Oct. 9, 1886, and just what he published in his circular for 1887:—

"I have been able the past season (which has

been extra good in this locality) to make a fulland, as I think, satisfactory trial of your new principles, in the use of 38 hives. Your doublebrood-chamber of cases, made so as to be interchangeable and invertible, is a great success, in working for comb honey. The facility for contracting and expanding the brood space is perfect, and the advantages to be secured are so great that the practical apiarist of to-day cannot afford to dispense with the use of a system so valuable."

Dr. G. L. TINKER.

New Philadelphia, O., Oct. 9, '86.

In his circular for this year, Dr. Tinker, says: "The new system of management of sectional bee hives, recently introduced by Mr-James Heddon, has wrought a great change in the practice of many of our largest bee.keepers
* * * The justice of Mr. Heddon's claims (of invention) have been generally admitted and all should recognize his rights."

Now these printed documents are stubborn things, aren't they? and it seems to me that in the above I have given your readers some information, and at least cleared myself of the very vile accusations of the Doctor, who ought to be my co-worker and friend.

AMES HEDDON.

Dowagiac, Mich.,

The Premium to O. B. K. A. Members.

TYTHE question of a premium for 1801 was discussed at St. Catharines, and the final arrangement was left with Mr. McKnight, who so well conducted the negotiations re "Langstroth," as to place one in the hands of every member for '87. He has about concluded for the delivery to every member of the Association of a copy of Thos. W. Cowan's new book, which we noticed in last issue. The extent to which the negotiations have gone will be observed by a perusal of his letter herewith. Every subscriber to the Canadian BEE JOURNAL should be a member of the O. B. K. A., and we only hope that they may half of them join. As it is, we have the largest and strongest Association on the American continent, but we should like to double or even treble the The Secretary's present membership. address is: W. Couse, Streetsville, Ont.

"You may announce through the JOURNAL that the members of the Ontario Bee-keepers Association who pay their subscription of one dollar each, will receive, free of charge, a copy of "The Honey Bee, Its Natural History, An-

atomy and Physiology," by Thos. Wm. Cowan. Members of affiliated Associations who have not become members of the Ontario Bee-keepers Association by paying the membership fee are not entitled to rank as members for the purpose of receiving whatever may be donated by the Parent society. I make this statement to prevent any misunderstanding on the part of accredited delegates from the affiliated societies, because, some of them have contended in years gone by that they were entitled to participate in common with paid members,

The selection and purchase of what is to be distributed amongst the members this year was entrusted to me by the Board of Directors, and I have about completed negotiations with the Publisher for the purchase of the above excellent book, than which there is no more com-Plate work of its kind extant. These books will be distributed in a month or so from this date. There is no good reason why the membership roll should not embrace 1000 names this year. The first consignment will only embrace 200 Volumes, but arrangements have been made for filling repeat orders, so that every member joining the Association within a reasonable time, will receive a copy of the above work at his post Office, free from any charge whatever.

R. McKnight.

What I Don't Like.

DON'T like to see discarded hives, broken frames, smokers and other unsightly things lying scattered here and there over a bee yard.

I don't like to be addressed as "friend" by a man I never saw. A community of sentiment on one particular subject does not warrant men in employing it when speaking of or at each other. Nobody uses it under such circumstances except American bee-keepers.

I don't like so many editorial foot notes appended to contributions to bee journals. It looks as if the editors were dependent upon the brain of their correspondents for what they themselves write.

I don't like to be stung by a bee, nor to hear people say they don't mind being stung. I simply don't believe them when they say so.

I don't like to have a poor honey crop. I don's like to sell bees or honey on credit. People fancy they cost nothing and are not always Prompt in paying for them.

I don't like leaky honey tins. I feel like throwing them at the head of the tinker who made them,

for supplies; nor the clerks blamed for the mistake. It is a miserable excuse, and an unmanly one to boot.

I don't like too many devils in a printing office, they are apt to knock one's correspondence out of shape. They sometimes pie itsometimes hash it.

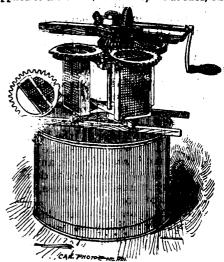
I don't like to be a chronic fault finder, but sometimes we dislike to be what we really are. NUMBER TWO.

FOR THE CANADIAN BEE JOURNAL.

Lawson's Automatic Extractor, for Extracting Four Frames at Once.

MAILED you to-day a photo of Lawson's Automatic Reversible Honey Extracter. To make it so the parts can best be seen and described, we set the working parts across the can on two strips of wood. The mode of operating it, that I can best give, is as follows:-

A comb is placed in each of the four comb baskets and power applied to crank. Now, the cog wheels at the top of the upright shaft are loose on the shaft, which causes the comb baskets to revolve as far as the stop cogs, thus presenting the sides of the comb baskets to the side of the can. As soon as the stop cogs strike the pinions of the clog wheel on the upright shaft, they can go no further, which starts the machine in motion. After the honey is. thrown out of one side of the comb, power is applied to the brake, which stops it at once, but



LAWSON'S AUTOMATIC EXTRACTOR.

this has no effect on reversing the comb baskets. To reverse, simply turn the crank in the opposite direction, and the comb baskets all re-I don't like mistakes made in filling an order volve sround as far as the stop cogs on the opposite sides of the of the combs to the side of the can, when it again starts in motion. The working parts can all be seen in the photo, excepting device that holds the tops of the comb baskets in position. This consists of a circular flange, secured to the cross head and works inside of the cog wheel or ring at the tops of the comb baskets.

The whole machine is very strong and simple; any person can operate it. It is positive motion; if you reverse the crank the combs must and will reverse before the machine will start in motion. It can all be taken apart and cleaned in an instant, and put together again as quickly. In extracting, either the sides or edges of the comb baskets can face the operator, which even is most desirable.

C. W. Post.

Murray, Ont., Feb. 2, 1891.

Mr. C. W. Post had the model, from which our engraving was taken, at St. Catharies, and all those who exit, were unanimous in the opinion that it would "fill the bill" exactly as an automatic reversible extractor, providing it worked as nicely when carrying four heavy combs as it did in the model without any. If the castings are made of malleable iron, we think there will be no difficulty on that score, however, and we do hope it may turn out as anticipated. It we mistake not, Mr. Post has actually tried an extractor of the full size, in his apiary the past season, and if he is prepared to say that it does the work required of it, we need have no hesitation in accepting it as just the Extractor which we want.

The diameter of the body when made to hold four 1-frames will be about 30 inches; and for the Jones frame, 36 inches. The Extractor, therefore, will not be at all unwieldy as the Stanley Extractor is. It will not require a door any wider than it should be on any room or house in which extracting is done, to admit of easy ingress and egress, in the usual course of work.

We do not know yet what the price will be, but it will likely be within the reach of ordinary beekeepers.

For THE CANADIAN BEE JOURNAL.

The Work of an Individual Bee.

It has often pained me when visiting the bee yards of sparians in different parts and also in reading the utterances of individuals to note

the carelessness of life exhibited with regard to bees. It often reaches the ears of many of your readers, no doubt, "oh it is only a bee," but has it ever struck you, Mr. Editor, apart from the humanitarianism of it, what that one bee means with regard to a season's crop. For the sake of argument let me illustrate by taking the pastmonth's operations here, as an example.

On Nov. 1st, I examined 22 hives with a view of working them for extracted honey on thatdate. I put on top stories, each with 10 frames (I use the Root Simplicity hive). Each frame had comb built out in it. Up to date I have canned up just 1000 lbs. of honey, which, for density and colour, is equal to anything I have ever seen. It weighs 15 lbs. to the gallon, and is so clear one can read through a jar full. This, I will admit, is a phenominal yield, when it is remembered it will probably last until January 30th, 1891. But I am in a good country, with every inducement to bees to make large records. Now if we base our calculations on the computation that it takes 1,000.000 bees to carry a lb. of honey, that a fair hive has 30,000 workers. available, and that the life of each worker is 6 weeks, it will be seen, I think, that during the month of November honey came into each of my hives at the rate of a little over 14 lbs. per day. If each bee brought in an equal load, why then one bees record was 1/1250 oz. per day, for which it had to make 50 journeys of I suppose, at the lowest computation, 1 mile a journey. Thiswould mean 350 miles per week for about 1/178. oz. of honey, and during its lifetime it would travel 2,100 miles for 1/29 oz. of honey. Now, when wetake into consideration the many other dutiesthat this bee performs, at night, coupled with the heavy work undertaken successfully during the day, does not the whole of our ammiration go forth to the little worker? And is not our astonishment unbounded when we remember the whole of this work is done in such a distaterested way that it can never hope to participate in any such reward as a quiet restful winter? Does it not deserve a little more respectthan many apiarians accord it?

Iam

Yours respectfully, R. PATTEN.

We thank you for the above, and we shall be pleased to hear from you often.

Arthur A. Bell, Oro Station, writes: I received the goods which I ordered Feb'y 7th and am much pleased with them. Please accept my thanks for the prompt attention you gave my order, and also for the business-like manner in which it was attended to.

Oro Station, Feb'y 10, 1891.

Ontario Bee-Keepers' Association.

(Continued from issue of February 1st.)

RIPENING HONEY-CONT'D.

A. GEMMELL,—Asked if the aroma had anything to do with the flavor?

J. B. Hall,—The temperature has a great deal to do with the ripening of honey, as also has the frequent change of the atmosphere. If a better place than the comb in the hive could be found for this purpose he wanted to know it. The thin combs, and the constant change of the air over the combs, caused by the "fanning," makes it just the place. The aroma that we got with honey ripened in the hive, was what took the prizes at the fairs.

R. McKnight,—Contended that more honey was rendered uncured after it was a month out of the combs than was extracted in a green state. The moisture has a better chance of absorption. Mr. Corneil seemed to think that there was no difference between flavor and aroma, but flavor was a permanent quality, While aroma was a floating. The aroma was the volatile principle of the essential oil from the flowers whence it is gathered. If you chew the flower you get the flavor; smell it and you get the The aroma was at its best just as the honey was taken from the hive-To preserve it, it passes off in time. seal the honey air tight quickly. Speaking of the point at which honey would boil, he believed that Mr. Corneil was the first to announce the degree at which honey would boil—235° It was impossible to boil honey in water because wat-The only er never rises above 212°. effect that putting honey in boiling water would have, would be the loss of the aroma. To keep this bottle at once, When taken directly from the hive.

ELECTION OF OFFICERS.

The election resulted as follows, entirely by acclamation:

President—Allen Pringle, Selhy, Ont. Vice-Pres- F. A. Gemmell, Stratford, Ont.

DIRECTORS.

District I —W. J. Brown, Chard.

2 —J. K. Darling, Almonte.

3 —M. B. Holmes, Athens.

4—C. W. Post, Murray.

5—S. Corneil, Lindsay.

6—W. Couse, Streetsville.

District 7—A. Picket, Nassagewaya.

8—F. A. Rose, Balmoral.

9—M. Emigh, Holbrook.

" 10—R. McKnight, Owen Sound.

" 11—A. W. Humphries, Parkhill.

" 12—R. F. Holtermann, Romney.

13-R. H. Smith, Bracebridge.

NEXT PLACE OF MEETING.

The Directors had the appointing of the next place of meeting, but it was thought advisable that the Annual Meeting should suggest a point; it was therefore, moved by R. Meyers, seconded by F. H. Macpherson, that the City of London be suggested to the Directors, as the next place of meeting.—Carried.

A THIRD DAY'S SESSION.

Moved by D. A. Jones, seconded by A. Laing, that a three day's session be held.—Carried.

AUDITORS.

D.Anguish and J.B.Hall, were elected auditors.

COMMUNICATIONS.

The following letter was read by the Secretary, regarding the

COLUMBIAN EXHIBIT AT CHICAGO.

Hon. W. Couse.

Secretary, O. B. K. A., Streetsville.

Dear Sir,—I hope your Association, at its meeting on the 7th, will take such action as will lay the foundation for an exhibit at the World's Columbian Exposition, as shall represent your well known Association.

It is the purpose of this Department to furnish you such information as you desire, and to be of assistance to organizations like your own in every way possible. I shall be glad to have a copy of your proceedings, and shall take pleasure in answering any inquiries you may desire to make.

W. T. Buchanan,

Chief Dept. of Agriculture.

After considerable discussion, it was decided that until the Ontario Government decides what part it will take in regard to an exhibit, the Association would be unable to say anything definitely.

On motion of D. Chalmers, seconded by R. H. Myers, the sum of \$25 was tendered to President Pringle, as a slight compensation for the extra services in connection with the enforcement of the Foul Brood Act.—Carried unaimously.

The President was empowered to-

appoint delegates to the next North American Convention.

EXPERIMENTS RE FOUL BROOD.

In conformity with the suggestion in Mr. Corneil's paper, the following resolution was passed:

Moved by S. Corneil, seconded by R. McKnight, That whereas it was generally admitted that the combs in hives infected with the disease of foul brood are contaminated, and where such combs are rendered into wax, it is feared that the heat required for the purpose is not sufficient to kill the spores of bacillus alvei, thereby allowing the disease to spread by the use of comb foundation manufactured from such wax, and

Whereas, the opinion is that the spores of the bacillis are carried by the bees in honey and in pollen from diseased hives,

Be it therefore resolved, That the President of this Association be instucted to communicate with the Director of the Experimental Farm at Ottawa, and the President of the Ontario Agricultural College at Guelph, asking them, on behalf of this Association, to have the necessary experiments made to determine whether the disease may, to any considerable extent, be spread by the above means or not.

DELEGATES' REPORT RE N. A. B. K. A.

The report from the delegates to the International, Rev. W. F. Clarke and R. McKnight, was then read.

The undersigned, delegates to the North American Bee-keepers Association, beg leave to report as follows:—

This organization, which has been in existence for about twenty years, comprises in its constituency both the United States and Canada. It was intended from the outset to be composed mainly of delegates from the several States, Provinces, and Territories of the North American Continent. It was part of the plan that local associations should send their best beekeepers as representatives to the continental body, which was to form a sort of high court or parliament, of apiculture. The original programme has never been fully carried out, and the meetings have been largely local, so far us the cattendance has been concerned: The Association has mot twice in Canada: onto in Toronto, and subsequently (last year) in: Branto ford. The recent meeting was in Keckuk, Iowa.

This is the first time the body has met west of the Mississipper, and the experiment of going so far away from the centre, was not a successful one.

Those present were chiefly Iowa men. Though the place of meeting was close to the borders of Illinois, few came to it from that State. Fewer still came from Missouri, though that State was also contiguous to the place of meeting. Michigan had only one representative, Colorado one, Ohio three. All the other States were unrepresented. Ontario sent two delegates, Rev. W. F. Olarke, of Guelph, and Mr. R. McKnight, of Owen Sound, Registrar of the County of Grey.

The Association met Oct. 20-31, holding eight sessions. It was called to order on the morning of the first day, by the President, Hon. R. L. Taylor, of Lapeer, Michigan, a gentleman educated for a lawyer, but who drifted into beekeeping, and is now one of the foremost apiculturists in the United States. A full report of the proceedings would occupy too large an amount of space and only a brief resume of the more important matters can be atetripted. Interesting details of "Fifty years Progress in Apiculture," were given in a paper by T. G. Newman, editor of the American Bee Journal. "Apicultural Journalism" was discussed by Mr. W. Z. Hutchinson, editor of the Bee-keepers Review, and a higher standard of bee-periodical literature strongly urged. The President's address which was not delivered until the second session, glanced at the past honey season, the markets and various general matters, but was chiefly taken up with suggestions about incorporating the Association, and making due preparation for the approaching World's Fair at Chicago.

A paper was read on the "Bee Pasturage of America" by Mr. A. I Root, editor of Gleanings in Bee Culture. Its main purport was the newer and less known plants that yield honey. The white sage of California; the mesquite, a small shrub or tree, bearing edible pods, and flourishing in Arizona, Texas, New Mexico, and other parts of the United States; the Spanish needle, which grows abundantly in the Middle and Southern States; sweet clover, teasel, rape, and mustard were successively spoken of and their honey-producing qualities described. discussion that arose on the paper, it was generally agreed that it would not pay to raise crops for honey alone, and that, bee-keepers must largely depend on wild flora growing in waste places.

Dr. A. B. Mason of Auburndale, Ohio, read a paper on "The Apiarian Exhibit at the World's Fair in 1893," which gave rise to a large amount of discussion, and resulted in the appointment of

Committee which reported at a later stage of the meeting. "What I don't know about Beeseeping" was the subject of a humorous paper by Dr. C. C. Miller, of Marengo, Illinois, formerly a practicing physician, but now an apiarian *pecialist. The one practical point brought into Prominence was, that notwithstanding the great Progress made by their pursuit, bee-keepers have much to learn. Rev. W. F. Clarke read a Paper on "The Work of the Association: its Past and its future." It enumerated a number of benefits that had accrued from the organization, and pointed out how much its usefulness might be augmented by making it more truly representative of the best and most advanced thought in apiculture. A volunteer essay was contributed by Mr. Allen Pringle, President of the Ontario Bee-Keepers' Association on "Foul Brood," calling attention to the prevalence of this terrible scourge of bees, and detailing what had been done in the Province of Onfario by egislative enactment and vigilant inspectorship to check the progess of the evil.

The question, "Is it best to use full sheets of foundations in brood and surplus combs?" was introduced in a paper by Mr Eugene Secor, of Porest City, Iowa, and had the effect of bringing out the views of a large number of bee keepers in regard to this matter. Considerable difference of opinion was manifest. Some were in favor of using full sheets of foundation in both brood and surplus frames, and starters in section boxes. A few used narrow strips in brood trames, and full sheets in sections. cames vs. suspended ones," was the next topic. It was brought forward by Mr. E. R. Root, of Medina, Ohio, who having recently taken a tour among eastern bec-keepers was surprised to find fixed frames in extensive use, and had been led to reconsider his preference for suspended frames in consequence of his observations. "The condition necessary to secure a honey crop," by Prof. A. J. Cook, of Michigan State Agricultural College, dealt chiefly with atmos-Pheric influence, which often lessened or wholly Posted the harvest, when other conditions were apparently favorable. This is one of the diffi-Culties of bee-keeping which human agency is "In an apiary run for Powerless to overcome. honey alone, are Italians or Hybrids Preferable?" was the subject of a paper forward. ed by Mr. C. F. Muth, Cincinnati, Ohio. anthor was warmly and even enthusiastically in avor of the pure Italian race of bees. Hybrids do sometimes develop a better aggregate of good Qualities than the Italians, but they cannot be bred with any certainty, and often betray bad Qualities, especially that of vicious temper. The un-

iform amiability of the Italian race, added to their many other excellent points, render them, on the whole, the most desirable strain of bees now available. Hybrids have usually warm champions at these conventions, but this time very little was heard in praise of them.

A question drawer was in operation, and many topics were suggested by its contents. Too many of them, however, had to do with elementary bee practice, with which the time of such a meeting should not have been taken up. Introducing queens, bee cellars; out-door wintering doubling up colonies, sugar stores, migratory bee-keeping, combination of bee-keeping with other pursuits, the proper space between brood combs, and the protection of bees from the inroads of rats, mice, and black ants, were among the more important queries considered.

The coming World's Fair proved a troublesome topic, and was not settled without much difference of opinion growing out of the matter, being mixed up with the question of incorporating the Association. The necessity of a Government grant in order to make a creditable display forced incorporation to the front, it being felt that it was unlikely that public money would be given to an organization that had no legal standing. The Ontario delegates contended that each State or Territorial association should seek incorporation and apply for a grant of public money as the bee-keepers of their own province had done, and that then a fund for exhibition expenses should be formed by each State or Territorial body contributing its quota. They also pointed out the impossibility of Canada being a joint applicant to the United States Government for an act of incorporation. little heed, however, was paid to these representations' and a committee was ultimately appointed to seek incorporation for the Association, and to fix its headquarters at Chicago, Ill. It is very questionable if the Eastern States will consent to this arrangement, and be content to revolve, like so many satellites, around the State of Illinois, and the city of Chicago. It is quite certain that if this plan be consummated. Canada will be forced to retire from a partnership which has been pleasantly maintained for a score of years.

We visited a farm and apiary on the Illinois side of the river, about four miles from Keokuk, the place of meeting, which has a wide reputation, and is a remarkable illustration of the possibilities of bee keeping. The establishment is carried on by Charles Dadant & Son. Mr. Dadant, senior, emigrated from France to this country many years ago, and took up eighty acres of land, on which he still resides. Accustomed

to bee-keeping in his native land, he commenced an apiary in a small way, and carried it on as an adjunct to his little farm. From humble beginnings, the apiary has grown until it now comprises about 400 colonies of bees. At an early period in the use of comb foundation. the Messrs. Dadant commenced the manufacture of this requisite, now in such large demand among bee-keepers. During the present year, they have worked up no less than 80,000 pounds of beeswax into comb foundation. The net profits of their apiary and factory last year were \$5,000. Their home is very pleasantly situated in a natural grove, under the grateful shade of which their 400 colonies of bees are distributed, presenting the appearance of a miniature city. The little farm is worked after the fashion of a large garden. There are ten acres of grapes. Part of the crop is sold for table use, and the remainder made into wine, which is sweetened with honey, and retailed at the low price of \$1 per gallon. The Messrs. Dadant, both father and son, are intelligent, wide-awake, and energetic men, who have evolved large results out of small beginnings, in a line of things which too many short-sighted farmers consider beneath their

All of which is respectfully submitted.

W. F. CLARKE, Delegates. R. McKnight,

FOUL BROOD INSPECTOR'S REPORT.

A written report from the Inspector, under the Foul Brood Act, was read, after which it was moved by R. Mc-Knight, seconded by C. W. Post, that the same be received, and the Secretary advise the Government of the amount to be placed in the estimates for the enforcement of the Act, in accordance with the views of the Board of Directors.

Moved by D. A.] ones, seconded by A. Laing, that William McEvoy be the Inspector, under the Foul Brood Act, for the current year.—Carried.

Moved by D. A. Jones, seconded by J. Myers, that Samuel Bray be the Sub-Inspector.—Carried.

CANADIAN BEE LITERATURE.

The question of Bee Literature was brought up by F. A. Gemmell, acting for the Perth County Association, and a paper by J. E. Frith, was read.

A motion was passed that a committee be appointed to look into the matter and report at the next annual meeting.

OUT APIARIES.

Following this came a paper full of interest on the above subject, from C. W. Post, which will appear along with the others which are being embodied in the Government report.

There was little discussion on this paper, owing to the short time at the disposal of the meeting, as many were already leaving to catch their respective

trains.

Votes of thanks for the use of the Court House, (which, by the way, was the nicest place in which the Association has ever had the pleasure of meeting), the City authorities, etc., were passed when the meeting adjourned.

DIRECTORS' MEETING.

A meeting of the Directors present was held immediately following the close of the last session, which is reported as follows by the Secretary:

Members present—Vice-President, Messrs. J. K. Darling, Brown, Corneil, Picket, Emigh. Holmes, Rose, McKnight, Post and Couse.

W. Couse was reappointed Secretary, and R. McKnight Treasurer.

Mr. McKnight was appointed to arrange for premiums for members for the year.

The President, Treasurer and Secretary were appointed an Executive Committee.

\$200 was appropriated for affiliated Societies, no society to receive more than \$30.

The President was appointed a delegate to attend the Central Farmers Institute meeting.

A. W. Humphries was appointed a delegate to Western Fair Association.

Messrs. McKnight and Emigh were appointed delegates to the Toronto Industrial.

A grant of \$25 to Toronto Industrial; and \$10 to the Western Fair was made.

A committee, composed of the President, Vice-President and Jams E Frith were appointed to consider the danger of the introduction of foul brood into Canada from the importation of bees, and if found desirable, to take such steps as will insure the protection of bee-keepers, through quarantining imported bees when deemed necessary.

Messrs. Gemmell, Frith and Corneil were appointed a committee to look into the matter of bee journalism.

The President and Secretary were appointed a printing committee.

The next annual meeting will be in London, on the 5th, 6th and 7th of Jan., 1892.

Queries and Replies

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

Spring Packing.

QUERY No. 285.—Will it pay the beekeeper, who winters inside, to make an outside case for each hive, and pack bees for a couple of months in spring, and say one month in fall before putting in cellar,—allowing that each case costs 50c?—A. L.

EUGENE SECOR, FOREST CITY, IOWA.--I don't know. I doubt it.

DR. C. C. MILLER, MARENGO, ILL.—I couldn't tell without trying. Quite likely it would.

Prof. A. J. Cook, Lansing, Mich. Yes, for spring. I doubt if it will pay to pack in fall.

R. McKnieht, Owen Sound.—Probably it will, but the cost and labor are too much for me.

M. EMIGH, HOLBROOK, ONT.—It won't pay me. I have no time to spare in packing and unpacking bees.

- J. ALPAUGH, St. THOMAS, ONT.—I think not; if I went to that trouble and expense 1 would winter them out doors.
- H. D. CUTTING, CLINTON, MICH.—" Yes," in many localities it will pay. It makes extra work, but you will see extra results.

ALLEM PRINGLE, SELBY.—Yes, it will certainly pay in Canada, and I should think in the northern and some of the central States.

- C. W. Post, Murray.—It might pay if your apiary is located in a cold, windy locality; while in a warm, sheltered place, I doubt if it would pay.
- G. M. DOOLITTLE, BORDDING, N. Y.—Yes, but it will pay better to use chaff hives the year around. I've mine for wintering in the cellar, and like them there nearly as well as out doors.
- J. K. Darling, Almonte—I think it would have paid me more than 100 per cent. last spring if I had done it. I believe it would pay, one season with another, if the cases cost \$1.00 cach.

JAS. HEDDON, DOWAGIAC, MICH.—Yes, for spring, protection, but don't pack at all in the fall, when there is no brood. As soon as your-bees need protection at all, in the fall, set them into your sp.cial repository.

- G. A. DEADMAN, BRUSSELS.—It would not pay me. I have too much other work, nevertheless. I believe it pays in the spring to have some packing around them, or use chaff hives altogether. See answer to 286.
- J. F. DUNN, RIDGEWAY—Yes, because you could use the cases for a good many years. But if you live in this part of Ontario, I would advise you to leave them packed on their summer stands and not take them in the cellar at all. Double walled hives, made of 3/8 in. lumber and packed with planer shavings suit me best.
- J. E. Pond, North Attleboro, Mass.—I have never practiced inside wintering, but judging from the literature on the subject covering a long period of years, I should most assuredly say. no. I can't see how, or in what manner anything can be gained by so doing. In fact, if the written evidence of the past, which is the actual experience of the many, is worth anything practically, the plan will work mischief and not good.
- G. W. Demaree, Christianeurg, N. Y.—If would not pay in my locality, but it would most probably pay in a cold climate. The way to demonstrate a proposition of this nature is to try it. In this moderate climate, I mean the climate of the Southern middle State of the United States of America. Bees winter better in common single-walled hives than they do in any sort of a packed hive. The reason of this is the sun shiny days warm up the bees and give them a chance to change position without loss of life. The sun cannot warm a double-walled hive.

By THE EDITOR.—In a season such as last was, I should say it would have paid well, and we are now making cases, which we intend to use the coming season, in our own apiary. We will be able to speak more definitely about the first of July next, as to whether it pays us or not.

Best Protection in Spring.

QUERY No. 286.—What is the best method of spring protection for bees in S. W. Hives that are wintering in cellar? I expect some of them to be weak owing to queens stopping laying early last season, and I want to prevent spring dwindling.—R. H. S., Bracebridge.

DB. C. C. MILLER, MARRINGO, ILL.—The best spring protection I have tried is to keep 'em in the cellar.

Professor A. J. Cook, Lansing, Mich.—As suggested in 285, use an outside case, and pack with chaff, straw, shavings or excelsior.

EUGENE SECOR, FOREST CITY, IOWA.—The best protection I know of is the cellar itself. That is, leave them in till the weather is warm and flowers are open.

M. EMIGH, HOLBBOOK, ONT.—All the protection I use is a high board fence to break the north and west wind. If your cellar and stove is all right they will not likely be weak.

- H. D. CUTTING, CLINTON, MICH.—Use a thin outer case, with about 2 in. space all round and fill with chaff. I prefer 2 in. in place of more for spring protection.
- G. M. DOOLITTLE, BORDDING, N. Y.—Can't, say that I know what hives the S. W. are. Chaff packing is excellent for spring, summer
- J. K. DARLING, ALMONTE.—A box outside of the hive packed with 3 to 6 inches of straw, chaff, dry sawdust, leaves, or any porus non-conductor.
- J. ALPAUGH, ST. THOMAS, ONT .- I do not know, as I have never provided any for my I always winter in a very warm place, and have no spring dwindling.

Jas. Heddon, Dowagiac, Mich.—Pack them in cases with sawdust, and have the cases painted dark-red, by using English Venetian. Pack them at once, when you take them from the cellar.

ALLEN PRINGLE, SELBY, ONT .- Make "skeletons" or outside cases, and pack with chaff or saw dust, all around between skeleton's and hive, and place saw dust cushions or woolen quilts on top.

- R. McKnight, Owen Sound.—The simplest plan is to keep them indoors till the season is well advanced. An outer case packed with dry saw dust as high as the top of the brood chamber and comfortably cushioned on top will answer the purpose.
- J. F. DUNN, RIDGEWAY.-Leave them in cellar, until quite late in spring. Then set them on summer stand and put a light case over and around each hive, filling space between hive and base with planer shavings or cut-straw. Thet's right friend, R. H. S., I hope other querists will follow your example and give their locality, it helps very much in giving an intelligent answer.
- G. A. DEADMAN, BRUSSELS .- Put them into double walled hives, having one mich or more of space filled with chaff. After doing this leave them in these hives all the year through, and either sell your single-walled hives or use them for queen rearing. The walls of your double walled hive can be made of 9/16 inch lumber, and are, therefore, quite light. Once having these you will never return to single walls or worry about protection for your weak colonies.
- C. W. Post, MURRAY.—Keep them in the cellar as long as you can keep them quiet, then get them cut in a sheltered sunny place, crowd, them up and put a division board each side of the brood-nest, and they will get there just as extracting in less than he coon as if they were packed. Cover tops of frames with a cotton cloth and three sheets of Alliston, Feb. 5, 1891.

paper, and over this place one inch of dry, fine sawdust, and let your honey board or hivecover rest on the saw dust.

- J. E. POND, NORTH ATTLEBORO, MASS .-- Reduced the number of frames so that the be s will fully cover those that are left. Stop all upward ventilation, so that the heat is all retained, then build up the weaker from the stronger. In the fall all old and non prolific queens should be replaced, so that each colony has a good queen in the spring. Experience only can teach the best means as localities differ so much that no general instruction can be given that will apply to individual cases.
- G. W. Demaree, Christianburg, N. Y.—I do not know what a S. W. hive is, No matter what pattern of hive you use it will pay you to make your bees warm in some approved way in the early spring. After the spring has opened so that the queens begin to lay eggs, I carefully shut off all upward ventilation. I know of nothing better than sheets of paper spread over the top of the frames to prevent the escape of the

By the Editor-I should say a light, outside case, packed with dry, fine sawdust. I would pack them the moment they were placed on summer stands; at any rate, all the weaker ones. If the hives have lots of bees, and the season was not a repetition of the last one, the strong ones will be all right, but I am not going to say that it would not ineed be a benefit to pack them as well.

CONVENTION NOTICES.

The Middlesex Bee-keepers' Association meets in the town hall, Parkhill, Feb'y 24th. J. B. Aches, Pres.; A. W. Humphries, Secretary. Mr. Jones will be present, all being well.

The Western Bee-keepers' Association meets in Ridgetown on the 18th day next March. G C. Scott, Secretary.

Extracting in Winter.

In your issue of Feb. 1st, page 404, you give a method of heating combs of sealed honey for the purpose of extracting, while the plan is very good, I can give you what I consider a much better one.

Make a frame of strips of wood to hang the cards in, in the same way they hang in the hive strips nailed to upright pieces of sufficient length to place the combs as near the ceiling of the room as convenient—place the combi-slightly apart, put a good fire in the stove. keep the room pretty well closed and, even if is in the middle of the winter, we can commence extracting in less than half a day.

S. Bray.

"How Doth the Little Busy Bee."

MERTING OF THE PERTH CO. BEE-KEEPERS ASSOCIA-TION.

HE Perth Co. Bee-keepers' Association met in the Council Chamber, in Stratford on the 18th Dec. The attendance was fair. Officers were re-elected for the coming year as follows:—President, F. A. Gemmill; Vice-President, John Myers; Sec'y and Treasurer, A. Johnston.

After some preliminary business, a discussion took place regarding apicultural journalism, in which Mr. J. E. Frith, of Princeton, see'y of the Oxford Co. Association stated from what information he could gather there were in the neighborhood of seventy-five thousand bee-keepers in Ontario, owning from one to two, up to two or three hundred colonies each, and he thought a journal devoted exclusively to the interests of bee-keepers, independent of the supply trade, would be a good thing if it could be carried out. He, however, did not wish it to be understood he was finding fault with any such publication, even when issued by a private concern, but as the industry had now assumed large proportions, bee-keepers generally were desirous of all the benefits that might accrue from such a publication. It was moved by Mr. Chalmers, of Poole, and seconded by Mr. Worden, of St. Pauls, that this Association unanimously feel and desire that improvements be made in the matter of Canadian bee journalism, and that Mr. F. A. Gemmill, the district director, bring the matter before the Ontario Association, to be held at St. Catharines on the 7th and 8th Jan'y, 1891. Mr. Wm. McEvoy, the Foul Brood Inspector, then delivered an interesting lecture on the disease, which was very instructive, and stated he was fully aware there was quite a diversity of opinion as to its cause and origin, but so far as he was concerned it was settled years ago that the "decomposition of uncaredfor larvae was the real and only cause of foul brood," and that time would bear him out in this statement. He also very strongly urged in no instance should dead brood of any kind whatever be allowed to remain in any hive, and regretted that unscrupulous individuals had, prior to the passing of the Act, sold colonies Containing the disease, but was now glad such work could no longer go on, as legislation had been secured and no better law existed in any land than we now possess,—in fact, the only fault that could be found being that it was not in force 10 years ago, as had it been so, the industry would have been on a much sounder basis to-day. After giving some information as to the extent of its ravages, he stated, in all two-hundred apiaries had been visited, including three cities and nineteen counties, and 150 of these contained the disease to a greater or less extent, and he did not believe there was a County in the Province that was free from the scourgr. It was then moved by Mr. D. Chalmers, of Poole, and seconded by Mr. John Myers, of Stratford, that a vote of confidence in Mr. McEvoy's ability as Inspector be tendered him.

Mr. Gemmill then broached the subject of quarantine, and while expressing himself greatly pleased with what has lately and is still being done, he thought it might be a matter of regret in the near future if no restriction were placed on the wholesale purchasing of bees from other countries, without some guarantee that they were iree from disease. It was therefore suggested that should it be found necessary to amend the present Bill a clause be inserted regarding this most important matter, as from information. received of late, it is becoming quite a common practice for bee-keepers to destroy all their bees in the fall, instead of wintering them over, and purchasing anew from the Southern States the following spring. In concluding, he concurred in the idea that it was a good thing tofight the disease at home, but it would be of little avail if it was imported, as he was assured such had been the case, not only in full colonies but in purchasing bees by the pound.

After some suggestions as how to best apply the affiliation funds granted by the Ontario Association, it was resolved to secure the services of Mr. Frith to deliver a lecture at a special meeting of this Association to be held some time in February, on Foul Brood, and the relation bees bear towards securing an abundant fruit crop; also the danger of spraying fruit trees with Paris green at an improper time, a similar lecture to be delivered before a meeting of the Farmers' Institute to be held in St. Mary's on the 6th of January next.

Haldimand Bee-Keepers' Association.

HE annual meeting of the Haldimand Bee-Keepers Association was held in the Town Hall, Cayuga, on Saturday, Jan. 24th, 1891.

Present.—Frank Rose, President, and James Armstrong, Wm. Kindree, Robt. Coverdale, Alex. Stewart, Israel Overholt, M. Schisler, Isaac G. Wismer, John H. Best, John Booker, James Booker, Joseph D. Rutherford, W. Kindroe, Owen Fathers, Jr., and the Secretary, The minutes of last meeting were read and adopted.

The election of officers was first taken up, when the following were elected:—

President-Israel Overholt.

Vice-President—Robert Coverdale.

Sec.-Treas.-E. C. Campbell.

Directors—Owen Fathers, James Bookers, J. H. Best, James Armstrong, Wm. Kindree, M. Richardson, John Bell.

Moved by Mr. Overholt, seconded by Mr. Schisler, that this Association affiliate with the Ontario Bee-Keepers' Association. Carried.

OUT-DOOR VS. CELLAR WINTERING.

Mr. Armstrong favored out-door wintering in clamps, and chaff hives. He never wintered in the cellar as he did not think his cellar was suitable. He thought the best and cheapest clamp was one that would hold two rows of hives, facing north and south, with chaff or saw dust packed around the hives.

Mr. Schisler had wintered in the cellar, but preferred out-door wintering in clamps.

Mr. J. H. Best did not fayor cellar wintering on account of dampness.

Mr. Kindree thought the tenement hive was the best for winter.

HOW TO PREVENT BURR COMBS.

This subject was discussed by Messrs. Armstrong, Rose, Kindree and others, and the conclusion arrived at that proper spacing of frames in the brood chamber and about one fourth of an inch between the brood chamber and supers would obviate the difficulty to a large extent.

Moved by Mr. Overholt, seconded by Mr. Schisler, that the next meeting be held at Wismer's School House, South Cayuga, on 3rd Saturday in May. Lost.

Moved in amendment by Mr. Coverdale, seconded by Mr. Kindree, that the next meeting be held at Nelles' Corners, on 3rd Saturday

in May. Carried.

E. C. CAMPBELL, Secretary.

Getting Statistics.

HE plan followed by Mr. A. W. Humphries, secretary of the Middlesex Beekeepers' Association, is good, and is worthy of being copied by the Secretaries of other local associations, a part of whose duties is to prepare a statement showing the strength and prosperity of the members of their respective associations, for presentation with their annual report. A month or six weeks before the annual meeting of the O. B. K. A., he sent out postal cards addressed to himself, on the reverse side of which he has printed a form similar to the one given below.

For the convenience of Secretaries we will keep this form standing, and we will furnish the cards, printed, at the following prices: 25 cards, 50c.; 50 cards, 90c.; 75 cards, \$1.25; 100 cards, \$1.60.

A REMEDY FOR BLACK ANTS.

"My hives were covered with ants, and now I don't see them at all. The bottoms of my chaff hives are painted with coal tar. It costs 10 cents a gallon. One quart warmed and spread on quite thick, with a brush-broom, will paint the bottoms of 10 hives. It is cheaper than tarred paper; besides, is preserves the wood."

A correspondent in Gleanings writes the above, I persume he means to paint the upper side of the bottom board.

*, * Secretaries of local associations are requested to forward us, at the earliest possible moment, the dates of their meetings; and when the convention is over, a full report of the proceedings.

STATISTICAL REPORT FOR 189.

NAME	P. O. ADDRESS.	No. of C	olonies.	LBS. HONEY TAKEN		
NAME.		SPRING COUNT.	FALL COUNT.	Comb.	Extracte	
ARE YOU A MEMBER OF O B. K. A.						

THE CANADIAN BEE JOURNAL

ISSUED 1ST AND 15TH OF EACH MONTH.

D. A. JONES,

EDITOR-IN-CHIEF.

F. H. MACPHERSON.

ASSOCIATE EDITOR.

BEETON, ONTARIO, FEBRUARY 15, 1891.

An excellent article from Mr. A. E. Hoshal; on the advantages of the Heddon hive, will appear next issue.

Another good man gone wrong! This was the thought that struck us when we road that J. B. Mason, the editor of the Bee-Keepers' Advance "had gone off with another man's wife." This also explains the non-appearance of that periodical the past month or two.

We must not omit mentioning the very creditable samples of cakes and preserved fruits, in which honey was the sweetening power, as shown at the Ontario convention, made by Mrs. J. R. Howell, Brantford. All who tasted, agreed that nothing could be nicer.

J. F. Dunn, writing from Ridgeway, Ont., says: "Observer" is right, the "wintering on summer stands is gaining ground," He wants to know if it's true "that hundreds of hives are wintered out doors without any protection?" Yes, in single walled hives, hundreds of them, in this county; and although these often come through in good shape, the preference is for D. W. Hives, packed with planer shavings.

DEWEY'S IMPROVED PERT CAGE.

The improved queen-cage received from F. H. & E. H. Dewey, Westfield Mass, is ingenious, and will recommend itself as against the old style. The improvement consists in having a wire cloth slide inside the tin slide, which prevents the bees and queen from coming in contact with the tin, thus keeping the temperature uniform. As a combined introducing and shiping cage, it is ahead of the original, but we think a less expensive cage answers the purpose just as well.

THE BEST FLAVORED HONEY.

Here is a case in which another thoroughly good bee-keeper doesn't think it necessary to wait until the honey in the hive is all capped over before it is extracted. He says:

The best flavored honey I have ever seen or tasted, was extracted when partly sealed—at different times—and different kinds of honey, clover, thistle, goldenrod, etc., all mixed. When extracted it was placed in open vessels holding several hundred pounds each, and put into a rather small room, 8x10. In the room is a large window facing the west. The sun shone right in on the honey. It remained in that way for about a month, when it was put into shipping cans. Yours respt., SAM'L BRAY.

GRUBB'S COMB FRAME.

I. N. Grubb, of Glenville, Nebraska, on Jan. 27, 1801, patented a comb frame for bee hives. After reading the discription and claims in the patent, we have come to the conclusion that he does certainly live in a "glen" or some remote place where none of the ordinary bee literature of the day, or very little of it at least, has ever If he had read a bee book or found its way. bee journal, and thoroughly posted himself before applying for his patent, we think he would never have gone that far with it, and he would have been amused at any one who would do so. It is really time that every person had learned that the first investments to be made in connection with beekeeping, is to procure a stock of the best bee literature of the day.

LOOK OUT FOR MICE IN WINTER QUARTERS.

We thought we were free from them, but on examining our bees in their winter quarters a few days ago, we found several mice had got in and were disturbing the hives. One the bottom board of one hive, near the entrance, we noticed the combs were being cut down, and a few bees had been bitten in two. Means should be taken at once, in cellar or other winter quarters, where there is any probability of mice entering, to catch them should they make their appearance. We set a metal pail partly filled with water, and with wheat chaff sprinkled on top, so that the mice might think it was a pail of chaff, and then put a slanting board for them to run up. This they would do, jumping down into the pail. In this way we caught quite a Wheat chaft floats on top of the number. water, and will remain there a long time without sinking. We have usually been more successful with arsenic, granulated sugar and flourequal quantities-mixed together dry and put out in little heaps, which look like heaps of flour. Mice eat it readily.

HOW TO MAKE THE GARDEN PAY.

This is the title of a bright new book just published by Wm. Henry Maule, Philadelphia, written by T. Greiner. This is certainly an

able book, and is clear up to the present time. The description and comparison of the variety of methods of gardening under glass, commencing with the cold frames, then taking up cold forcing houses, next forcing houses with steam pipes or flues, and finally discussing the respective merits of steam and hot water, is worth to any gardener a ten dollar bill, to say nothing about the rest of the book. The engravings are beautiful: the print is second to none; and best of all, the author is a practical gardener-one who loves the dirt, especially when it is enriched up to its highest capacity, and who evidently loves every tool used in the garden. He is not only conversant with all the new seeds, plants and fertilizers, but he evidently has read up almost everything written in the agricultural papers on the subjet of market gardening. book is 6 inches wide, 10 inches long, 2 inch thick, and contains 272 pages, and ever so many pictures. The price is \$2, post paid.

LIFE MEMBERS OF THE N. A. B. K. A.

There are now twelve life members of the N. A. B. K. A., and the prospects are that there will be a number of others almost immediately. Perhaps some Canadian Bes-keepers would like to become members for life, and for the information of such we may say that the fee is \$10.00, which, when sent to the Secretary, Mr. C. P.Dadant, Hamilton, Ill., will be acknowledged. It is now 10 years since the senior editor of THE CANADIAN BRE JOURNAL became a life member. and in this time there are at least a score of others who have regularly attended and who have as regularly paid \$1 per annum, and now they have, many of them, paid \$10 for life member-The two old heads of the A. B. J. and C. B. I. looked ahead you see! Here are the names of those who are now on the list in their order of joining:

D. A. Jones, Beeton, Ont,
Thomas G. Newan, Chicago, Ill.
A. I. Root, Medina, Ohio.
E. R. Root, Medina, Ohio.
J. T. Calvert, Medina, Ohio.
Charles Dadant, Hamilton, Ill.
C. P. Dadant, Hamilton, Ill.
Eugene Secor, Forest City, Iowa.
Dr. C. C. Miller, Marengo, Ill.
O. R. Coe, Windham, N. Y.
C. F. Muth, Cincinnati, Ohio.
A. N. Draper, Chicago, Ill.

CIRCULARS RECEIVED.

Colwick & Colwick, Norse, Texas—Bees and queens,—8 pages.

queens,—8 pages.
Jacob T, Timpe, Grand Ledge, Mich.,—folder
—Bees, Queens, Poultry and Potatoes.

W. H. Laws, Lavaca, Sebastian Co., Ark.—Price List of bees, queens, etc.

TABLE OF CONTENTS.

Best Protection in Spring	427
Convention Notes	428
Extracting in Winter	
Experiments re Foul Brood	
Dewey's Improved Peet Cage	431
Delegates Report re N. A. B. K. A	
Divisional Brood Chamber Hive	
Directors' Meeting	
Foul Brood Inspector's Report	
Grubb's Comb Frame	
How to Make the Garden Pay	
Life Members to the N. A. B. K. A	
Lawson's Automatic Extractor.	
Look out for Mice in Winter Quarters	
Out Apiaries	
Ontario Bee-Keepers' Association	
Premium to O. B. K. A. Members, The	
Pollen Grains	
Ripening Honey	
Spring Packing	
What I Don't Like	421

1882 Chester Poultry Yards 1891.

E. J. OTTER,

90, De Grassi St., Toronto, Importer and Breeder of Exhibition

DARK BRAHMAS, ORNAMENTAL BANTAMS

My birds are second to none. They have won since 1890, 97 money prizes, 4 specials. Birds for sale at all times. Eggs in season. \$3 per 18, or 26 for \$5. Satisfaction guaranteed.

DON'T-FORGET

where the BEST STOCK in the country is kept.

If You Want Eggs for Hatchiug

1st Prize Birds as Breeders,

W. LECHORNS, B. MINORCAS, B. LANGSHANS,

Eggs per Setting, \$3.00 per two settings. \$5,00.

FRANK TIER, - - - ARVA,

COMMERCIAL

Relations with the Beekeepers of Canada in the past have been encouraging. A

UNION

of those who have become our customers and those who will kindly give us a trial order this season will be appreciated. We make Single and Double Walled Hives, Sections, Feeders, Frames, Shipping Cases. Comb Foundation, etc., at the lowest prices. Send for new price list of 1891 and find out how you can get a Sample Chaff Hive for \$1.00. A Pelham foundation mill nearly new for \$10 cash or thirty pounds of nice. Beeswax. Address all orders to to

W. A. CHRYSLER, Box 450 Chatham, Ont.

EXCHANGE AND MART

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

BEES

FOR iSALE,—Lindon Honey, extra fine and white, well ripened honey, put up in cases of two 60 lb cans at \$13.00 per case. Sample sent for 5 cents. W. E. MORRISON, Alvinston, Ont.

EXTRACTED HONEY—For Sale, 2000 pounds, fine quality, \$6 per 60 lb, can encased in wood. Smaller packages of 7, 15 and 30 lbs. also for sale. E. & G. W. BARBER, Hartford, Ont.

FOR SALE OR EXCHANGE-50 colonies of Bees in T 8 L. frame hives, for lumber wagon, double set of harness, or bob-sleigh, or anything useful on a farm. Address W. ELLIS, St. David, Ont.

FOR SALE—Forty colonies of Italian and Hybrid bees, guaranteed in good condition. Wired frames 9 x 142 incnes inside. Combs drawn from full sheets of Dadants foundation. Sample empty hive sent for inspection to intending purchaser. Address H. T. GARVEY, Legersoll, Ont.

2,500 LBS, HONEY for sale, good quality, light color, from 10c per lb. down to 8½c., according to quantity. Also about 300 lbs, comb honey, quality first-class, for which I would like an offer. GEO. WOOD, Monticello P. O., Dufferin Co., Ont.

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

READ WHAT THE

Michigan Agricultural College says in Bulletin No. 57 of March, 1890, of TIM-E'S NEW SEEDLING POTA-TOES. The prices, etc., I will add, and are my quo-

TOES. The prices, etc., I will add, and are my guntations.

TIMPE'S No. 1.—Round, flat, red." This variety was also critically tested against SCAB. Where undeated no scab was found. Stock limited. Only sold by the lb. Per lb., 75c.

TIMPE'S No. 2.—Leng, round. Eyes few small, shallow. Color nearly white. Flesh white. Medium early. Yield per acre 340 bushels. A VERY mandsome and VALUABLE VARIETY." Stock small, only sold by the pound. Price, 75c

TIMPE S No. 4.—Rather long, round. Eyes few, very large, shallow. Yellowish pink. Flesh white. Early. Yield per acre, 400 bushels. Quality good. A fine looking potato, and by far the MOST PRODUCTIVE of the EARLY varieties. Leaves medium green plants 16 to 18 inches high. with a spread of 3 to 34 feet. VIGOROUS." Per lb., 65c.; 2 lbs., \$1.00—post pand. In conclusion the College then adds: TIMPE'S SEED-LINGS have been grown here for four years, and have SHOWN THEMSELVES to be VERY PROMISING Varieties, WORTHY of GENERAL INTRODUCTION."

1lb. of each variety, post paid, \$2.00, or 2 lbs. No. 4 and 1lb. each of Nos. 1 and 2, prepaid, \$2.25. Give your Express office address.

lb. of each variety, post paid, \$2.00, or 21cs. No. 4 and lb. each of Nos. 1 and 2, prepaid, \$2.25. Give your Express office address.

Also, wishing to introduce my production, and my aplary demanding my attention later, I must prepare to get these potatoes ready to ship by April 1st, I make the following SPECIAL OFFER to the FIRST person ordering to the amount of \$1.00 or over, from EACH STATE or PROVINCE, I will give a TESTED QUEEN FREE of my PREMIUM STOCK, or return your money sent free. To all others I will add several packets of my Choice Garden Seeds (who ORDER AT ONCE). Remember. I am giving one full colony and II three-frame Nuclei for Largest Yields, 3 three-frame Nuclei for Largest Yields, 3 three-frame Nuclei for Loristibuted on each variety. Further particulars, in my new catalogue (now ready), mailed for stamp. Canadian currency and stamps at par, but would prefer express money orders. Be quick, and get a queen free, or your money returned. Remember I connot do this to all, but to the first crders.

Address At Once,

ADDRESS AT ONCE,

JACOB T. TIMPE, GRAND LEDGE, MICHIGAN.

POULTRY

FEW Silver Laced Wyandotte Cockerels for sale from American prize winning birds. Eggs for ching in season. W. J. O'NEAIL, Paris, Ont hatching in season.

MPORTED INDIAN GAME—Poultry Pigeons, Rab-bits, Ferrets, Guinea Pigs, Shetland Ponies, Maltese Cats, Dogs, Garden Seeds and Flowers. Send for my Circular. Address' Col. J. Leffel, Springfield, Ohio.

PGGS FOR HATCHING from my choice White Wy-andottes, Rose Comb White Leghorns, (Knapp's dir-ect) White Javas and Pekin Ducks, \$2 per 18. There are no better birds in Canada, tew as good. Satisfac-tion guaranteed. R. BLGYE. Todmorden, Ont.

FOR SALE—Four White Leghorn Cockerels, scoring from 92½ to 95½; 4 Black Leghorn Cockerels, scoring from 92 to 95½ by Smelt and Jaryis; 3 Black Mincroa Cockerels, Picknell's strain, also one pair of White Bearded Poland Chicks. I guarantee satisfaction. JOHN PLETSCH, Shakespeare, Ont.

CRAND clearingssie of Breeding Pens, Light Brahmas, Dark Brahmas, Buff Cochins, P. Rocks, White Leghorns. Langshans and B. R. Games; also three grand S. B. Polish Cockerels., two L. Brahma Cocks. two P. Rock Cocke; two P. Rock Cocke; two Langshan Cocks, one Dark Brahma Cock, one B. Minorca Cock, two B. A. Bantams, trio Aylesbury Ducks, two Pekin Drakes, Wilson Bone Mill, Webster Clover Cutter, Hot water Incubator, 50 exhibition coops, L. W. EDSALL, Selkirk Ont.

BLACK AND WHITE LEGHORNS

IMPERIAL - PEKIN - DUCKS.

Will be able to spare a limited number of eggs from the above varieties. My Black Leghorns have always won highest honors wherever exhibited and have genuine standard legs, "no artificial coloring about them," my whites are headed by "Snowball," recently purchased from R. H. Marshall of Dunnville, Ont., having scored 96 points last winter at the Ontario and his again this winter at Dunnville as a cock. I have him mat.d w.th Hens and Pullets, scoring from 94 to 97 I consider this as grand a pen as there is in Canada to day. My pen of ducks comprize the 1st prize Drake and 2nd prize Dock at Industrial last fall, wheel then by Allen Begue, London, Ont., also ist prize Duck at Milton ins winter. Leghorn eggs \$3 per 13 or 3 settings one of each, \$5. Duck eggs \$2 per 11, packed carefully in baskets with handles. Address P. H. Hamilton,

25 cents will pay for 6 MOS.

The Canadian Bee Journal

EDITED BY D. A. JONES.

And sublished on the 1st and 15th of each month, conand ordinate on the ist and into of each month, containing all the good things in the lapicultural world as they come to the front. Think of a whole winter's reading for a quarter. Stamps, American or Canadian, of any denomination accepted at par. Sample copy free on application.

The D. A. Jones Co., Ld., Beeton, Ont

Please mention this paper.

CARNOLIAN -:- QUEENS.

I expect to continue the breeding of Choice Carniolan Queens next season, and orders will be booked from date. No money sent until queens are ready to ship. JOHN ANDREWS, Paten's Mills. Wash. Co. N.

JOHN GRAY

TODMORDEN, ONT.

-BREEDER OF HIGH CLASS --

WHITE MINORCAS, GOLDEN & SILVER WYAN-

DOTTES, and PARTRIDGE COCHINS

My White Minorcas have won all the leading prizes at all the winter shows, one pullet at Brameton scoring as high as 97 points. Eggs from a few choice breeders at 83 per 13. My Wyandottes and Cochins rave won their share of prizes wherever shown. Eggs, \$2 per 13. I keep only the best, try me.

GAME



Bantam Fanciers

NEW FANCIERS.

Eight Black Red Cockergrand ones, guaran-Bred from a Crysteed tal Palace cup winner. Sure to please 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 \$3, 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 best.

H. H. DOTY

47 Wellington Place, Toronto

HERE!

P. Stock Dunville P.

8rd Exhibition

1st and 2nd on S, C.B.Cock, These birds are forsale and on S. C. B. Hen, 96; 1st on Blk Minerca Pullet, 94 1st on S. C. B. Leghorn, B. P.; 1st on Blk Minerca B: P.; 1st on Pekin Duck, 1st on Pekin Drake, drake for sale. A 1 birdsfor sale now.

C. H. McRae

Park Poultry Yards, Dunnville.

THIS SIZE



3 months..... \$3 00

5 00

Payable in Advance.

Discounts for Winter Orders

Following our usual practice, we offer the following very liberal discounts off orders sent in accompanied by the cash before the date specified. If you will figure out this discount you will see that our offer is an extremely advantageous one for the purchaser, amounting to a great deal more than a good interestto say nothing of the benefit of having your goods when you want them. We will, in a week or two more have a capacity for fully twice as much goods as formerly, and we will be able to turn them out better.

DISCOUNTS.

These discounts apply to everything in our pricelist, excepting foundation, honey tins, glass, scales, and wire nails. Up to Feb. 1st, the discount will be 6 per cent.; to March 1st 4 per cent.

> THE D. A. JONES CO. (LTD), Beeton, Ont.

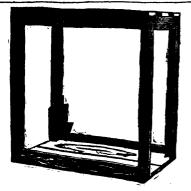


E. J. OTTER. Manager, Gerred Incubator Co., 90 De Grassi street, Toronto. D. H. JONES CG. LD. Address E.

BEETON, ONT

8 00

TO. THE EDITOR—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.



SHIPPING - COOPS

For Exhibition and Sale Purposes.

Save money in express charges by buying light, 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 \$6.2 8.55	100 \$22,50 80.00
	PRICE IN	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 exhibition coops, to hold one pint water. Price, Each 10 25 100 150. \$1.40 \$5.25 \$12.00

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.

-T R Y-

Christie's Improved Feeder

It gives the fowl constant exercise and saves you the trouble of feeding them—they feed themselves automatically.

any. 1 qt. 2 qt. Each, by mail, \$.50 \$.60 Per doz., 4.00 4.80

Th D. A.JONES CO., Ld. BEETON, ONT.

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 at Toronto, London, Barrie, Detroit, Brampton, Markham So buy your eggs and stock from where the prize winners spring from. Eggs from our prize winners \$2.50 per 13, \$4 per 26. Send for our Club circular..

ACKERLY & CLARK.

ATTENTION FANCIERS!

I shall soon import from E land a large number of

Buff Leghorns

Indian Games.

Orders received until Nov. 20th for imported birds. Buff Leghorns 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 cockerels for sale cheap. Brown White and Black Leghorns, White and Barred Plymouth Rock, White and Silver 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 POULTRY.

Autocrat strain of Light Brahmas, Single Comb Barred Plymouth Rocks, White Plymouth Rocks, Black Minorcas and Buff Pekin Bantams. Eggs. \$3.00 per 13,8 5.00 per 26. BOX 18, DERE PARK, ORT.

The Bee World

A Journal devoted to collecting the latest Apicultural News, Discoveries and Inventions throughout the world, containing as it were the cream of apiarian literature, valuable alike to amateur and veteran. If you want to keep posted you cannot afford to do without it. Subscribe Now. It is a 20-page monthly, only 50 cents per year. Stamps taken in one or two-cent denomination.

THE BEE WORLD is published by:

W. S. VANDRUFF, Waynesburg, Green Co., Pa

Sample copies free.

The Wide Awake Bee-Keeper

Who reads the BEE-KEEPERS'S REVIEW one year, or even a few months, is almost certain to become a regular subscriber. As an inducement to non-subscribers to hus become acquainted with the REVIEW, I will send t during the three succeeding months for 20 cents in stamps, and I will also send three back numbers, selecting those of which I happen to have the most, but of different issues. A list of all the special topics that have been discussed, the numbers in which they may be found, and the price of each will also be sent. Remarkled the Position has a list of the price of th a beautiful member the Review, has been enlarged. a t cover added, and the price raised to \$1.00. Hutchison, Flint, Michigan.

Turnerville.

Ont.

-BREEDER OF HIGHEST TYPE-

BRONZE TURKEYS

Write for prices of young birds in the fall.

Muth's Honey Extractor.

Perfection Cold Blast Smokers, Square Glass Honey fars, etc. Send ten cents for "Practical Hints to Be's Keepers." For circulars apply

CHAS. F. MUTH & SON.

or. Freeman & Central Avenues, Cincinuati

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

THOUSANDS OF BOTTLE**S** GIVEN AWAY YEARLY.

When I say Gure I do not mean merely to stop them for a time, and then have them return again. I MEAN A RADICAL CURE. I have made the disease of Fits, Epilepsy 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 Infallible Remedy. Give Express and Post Office. It costs you nothing for a trial, and it will cure you. Address:—H. G. ROOT, M.G., Branch Office, 186 WEST ADELAIDE STREET, TORONTO.

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

No lbs.	Per 1000	Per 500	Per 100	Less eac
	\$100 00	\$55 00	\$11 50	.12
	65 00	34 00	7 00	.074
21		26 00	5 50	• .06
I	00 00	16 00	3 25	$.03\frac{1}{4}$
1		13 50	2 75	.03
į		6 50	1 40	.011
‡		4 00	1 00	.01
Dance	ad coron	tone and	gerow cans	for th

Pressed screw tops and screw caps for above tins: Per 100 Per 50 Per 100 No. 1bs. \$2 75 1 75 **\$**12 50 5 and 21 \$23 00

8 00

per 100.. 42 00

15 00

"

"

1 and 1

"

..

"

Most of the leading beekeepers admit that for shipping honey in bulk, the 60 pound tin, encased in wood, is the strongest and best article to be obtained for the purpose. The prices are: 60 pound Tins, encased in wood, each...\$ 50 per 10.. 4 80 per 25.. 11 25 4 80 " "

Lithographed Honey Labels.

"

Every honey producer knows the advantages deivable from having his name on each package sold, and this series of honey labels are deservable popular, being handsome, bright and attractive. Directions for liquifying are given and a blank in which the vendor's name is to be printed. They are varnished, and a damp sponge will remove all dirt. Samples of all our labels sent for 5 cts.

7 11.1.1.	Per 1000	Per 500	Per 100
5 pound labels	🌣 🖰 🗸 🔾	§4 25	\$ 85
21 " "	5 00	2 75	60
	3 50	2 00	45
1 " "	1 75	1 15	25
1 " "	17	1 15	25
Ī " "	95	55	13
Labels for tops of	tins 90	55	13
Printing name an	d address,	first 100	30
Each subsequent			
Printing name an	d address, j	per 500	75
"	•	1000	1 25

Shipping Crates for Sections.

Sample crates, glass included, made up		
holding 12 or 24 sections $3\frac{1}{4}x3\frac{1}{4}$ or $4\frac{1}{4}x4\frac{1}{4}$		
		~~
each	₿	20
Per 10	1	70
in flat holding 12 sections.	-	••
Without glass, per 10	31	00
" " 25	2	25
« « 100	_	
100	8	00
in flat holding 24 sections.		
Without glass, per 10\$	1	50
" " " 25	3	25
" " 100		20
"""100	12	OU
We keep in stock crates that hold		
12 Sections	ž	

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

12

"