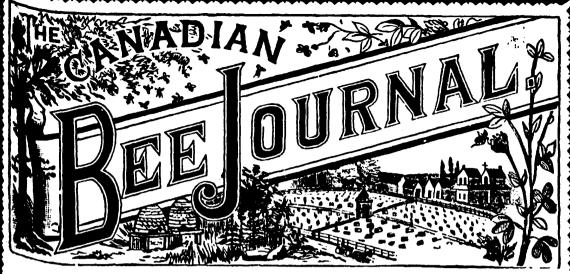
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Vol. VII, No. 12. BEETON, ONT., SEPTEMBER I, 1891. WHOLE No. 293

CANADIAN BEE **IOURNAL**

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BARNES, 5

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Respectfully, T. A. SLOCUM, M. C., 186 West Adelaide St., Toronto, Onto



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POULTRY Netting.—See our advt. in another col with prices. Also for shipping and exhibition Coops, with owner's name printed on the canvas. Drink ing truntains and poultry supplies generally. THE D. A JONES CO. Ld. Beeton

IF YOU WANT CHOICE LACED WYANDOTTES for the winter shows, write me for them. All enquiries cheerfully answered when stamp is enclosed. JOHN GRAY, Todmorden, Ont.

DEST thoroughbred lop-e-red rabbits, all ages from 18 months down, cheap for cash, or exchange for honey extractor, good muzzle loading shot gun, or clean combs to fit Jones' hive. C. VANDEVORD, Weston, Ont.

A S my time is now entirely taken up with the Gerred Incubator Co., I will sell my intire stock of exhibition Dark Brahmas at the buyer's own figure. I have 150 birds to choose from. Write for particulars. E. J. OTTER, 90 de Grassi street, Toronto.

WONDERFUL CHANCE.—For sale, 23 acres of land with good house, barn and side buildings, good well and rain cistern. A fancy place to keep bees, poultries, and all kinds of berries. Bee fixtures at low prices. Write for particulars. H. M. FREY, Heidelberg, Ont.

POR SALE -A choice lot of early chicks of the following varieties, in pairs, trios, or pens: Golden and Bilver Wyandottes, Dorkings, S. C. b. Legborns and Plymouth Rocks. Good birds at moderate prices. JOHN GRAY, Todmorden, Ont.

WE are now able to ship by first Express, in fact we are shipping every day all the Foundation ordered, Knives, Force Pumps; in short, we endeavor to have everything go by first train after the order is received. D. A. JONES CO.Y, Beeton.

MEYER'S S. L. WYANDOTTES are acknowledged the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the control of the best grand chicks for sale all the best MEYER'S S. L. WYANDOTTES are acknowledged the best grand chicks for sale all bred from the following 2 to 4 year-old hens scored last winter by Mr. Smelt: 94: five 92\(\frac{1}{2}\) each; 92 (first hen, Toronto, '90), 91\(\frac{1}{2}\) and pullet 92, mated with cock, 94, cockerol 93. If "like begets like," they must please you. J. R. MEYER, Kossuth.

Mention this Journal.

GOLD SPECIALS.—S. M. Clemo of the Perfection Fanciers' Club, Dunnyille, Ont., offers \$10 in gold for best S. L. Wyandotte cockerel and \$5 in gold for second best S. L. Wyandotte cockerel hatched from eggs bought of him in 1891. Entrance free, and to be sent to editor C. P. J. not later than Sept. 5th. He also offers for sale his entire stock of W. P. Rocks, also a choice lot of S. L. W. and B. Minorca chicks, shipped or approval to reliable parties. on approval to reliable parties.

Don't you want to improve your stock Don't you want large, beautiful yellow Queens, producing bees that will please you fully; the best honey gatherers on earth. Seven years carefully breeding, 650 Queens sold and have heard ef only one mismated. Queen, 75c.; 3 for \$2. A yellow to the tip, select breeder, by return mail, \$1.50. W. H. LAWS' Lavaca, Ark.

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MICHIGAN LANDS, best in the State for some at \$2, \$3 and \$4. Write R. M. P. West Bay City, Michigan

O J. PUTMAM, Leominster. Mass. has for several fine cockerels and pullets, B P Modern and 3rd on pullets, and 2nd on pen as AF Jan. 14 to 16 1890. Eggs \$2 per setting.

W. COLE'S Black Minorcas. I have bred the birds for 5 years and they are as good as by the Canada, United States or England. 1889 pullets 1949, 949, 96, 96, 961, cockerel 953, J Y Bicknell, 1969 for hatching \$1.25 per 13. WM. COLE, Branch

SEND your address on a postal card for sampled by Dadant's foundation and specimen pages of the Hive and Honey-bee," revised by Dadant's edition of '89. Dadant's foundation is kept on the canada by E. L. Gould & Co., Brantford On II. CHAS. DADANT & SON, Hamilton, Hancock CO.

A FEW Trios, Buff and Partridge Cochins, \$5 to \$10, a trio, also three breeding pons of Br. Less \$6 a pen. Eggs from Cochins and B. P. Rocks, Br. Leghorns, \$1.50. BARTLETT & GEORGE, once St., London.

A RARE CHANCE—If you desire a good home with in stone's throw of railway, express and post offer in one of the very best house locations in the States. Write me for particulars. Excellent neighborhood. An apiary of 90 colonies, with fixtures be sold or leased with the place. Terms easy, dress JAMES HEDDON, Dowagiac, Mich.

GET new blood in your bees by getting our land beautiful yellow Queens, 75 cents each. extractors, knives, smokers, frames sections, &c. We are selling our nice foundations for 45 and 55 cents by We are selling our nice foundations for 45 and 56 cents.

HAZELTON FRUIT AND POULTRY FARM, "Headquarters" for Barred Plymouth Books, and you require breeding or exhibition birds of this reavenity, and want "the best," order from headquarters all particulars. Address C. W. ECKARDT, Ridge villa Ont.

Special Offer for July!

I WILL SELL EGGS FROM MY BEST Breeding Pen of White Leghors for Langshans for the month of May at the lowing prices:—

\$1.50. I Setting (13) \$2.00. 2 Settings (26) -

This is a grand offer as my birds are good

J. L. Myers,

Box 94, Stratford, Ont

GOLONY Saved from Death the Coming Winter Would Repay the cost of a copy of "ADVANCED BEE CULTURE" ten Times Over. In S of its Chapters may be Found the Best That is Known upon Wintering Beet. It costs 50 cents but its Perusal may Make you \$50 Richer next Spring. The "RHVIEW" and this Book for \$1.25. If not Requainted with "REVIEW," send for Samples. W. Z. HUTCHIRSON, Flint, Michigan



Vol., VII, No. 12. BEETON, ONT., SEPTEMBER I, 1891. Whole No. 293

IOURNAL. BEE

IRRUED IST AND 15TH OF EACH MONTH

D. A. Jones

EDITOR.

EDITORIAL.

Now to Preserve Bees for Winter.

No OW friends, let us sit down and have a little talk on the best way to prepare our bees for winter.

One of the best and most important Points is to have plenty of good sealed honey in the comb. have the brood chamber any larger than is absolutely necessary to hold all the honey required, and a little to spare, and room for the bees. The more compactly they are arranged, the better; but one thing is certain, if you want to have blasted hopes, just give them poor, thin stores. Some people say that bees will not think will not seal up stores until it is thick and well ripened. We differ with them on this score. Bees will seal up nectar sometimes, before it thened, and we have had them seal up is sufficiently thin sugar syrup, before it was as thick as it should be for wintering. Well, tine may say, how do we know when it is thick enough; that if we wait till Spring, and our bees are dead, and we that out the stores are thin, and that

If we disturb them too much. late in the fall, it has an injurious effect on them. We cannot see into the hive. and what are we to do? Just make the hive so warm that the bees can ripen their honey. On a nice warm day, give them ventilation, but on cold nights, keep them closed up, as any portion of the hive, not occupied by the bees, will, on a very cold night, where the cells are partially filled with honey, absorb the moisture, thin the honey and make it much more watery and unsuitable.

We once took a small colony that had thin stores, in fact, the bees were too weak to ripen their scattered stores among the comb, fit for capping. packed them very warmly and arranged them so that we could keep them warm on cold nights by artificial heat. In this way we evaporated their stores for them, and hung some of the outside combs that they could not occupy, in a very warm place, near a stove and near the ceiling of the room. The warm dry atmosphere of the room, soon ripened this honey, until it was almost waxy in texture, it was so thick. Now, the tops of the combs that were hung up in this way, had been capped earlier in the season, and the dampness of the hive had caused the capping to look watery. Some of them had burst and the thin honey was dripping down the combs, but this soon changed, as did the uncapped cells. It ripened, but not as that was the cause of their death, it is short time the moisture was so evaporated from it, that the capped cells were not more than three quarters full, and those cappings that had not burst off, seemed to allow the moisture to evaporate through them, and we had in the hive a division board, crowdiag the frames up to a space suitable to the size of the colony. When the weather was cold, we sometimes set a few warm bricks behind this division board, and also a few on top of the frames, which appeared to absorb the moisture very rapidly. Brick that has been dried in an oven, or brick kiln, will take up a very large amount of water, without appearing to be wet, and it is an easy matter, where a person has only a few colonies, to evaporate and absorb several pounds of water from the combs in a very short time.

Now if a person has several hundred colonies of bees, we do not expect that they are going to fuss with hot bricks, or some other way equally troublesome, in fact, where a person has plenty of bees, it is perhaps better not to do too much fussing, but double your bees, so that they will be very strong, and they will do all this work themselves. Where you are determined to practice, experiment, and increase your colonies to the fullest extent, you must give them such artificial assistance, as will enable them to do the work that should be done by the bees.

There are a great many little things, that perhaps do not pay in beekeeping; just while you are experimenting with one colony, or more, as the case may be, but it gives you experience, and the experimenting posts, and enables you to judge much, as to the merits or demerits of such plan, or suggestion of some other party. But there are some who only have a colony or two, and are very anxious to do the best they can to prepare them for winter, to winter them successfully, and to build them up in the spring. We do not advise artificial means in large apiaries, but we merely mention some facts, in order to post those who wish to adopt such means to secure better results. Where time is no object, and a person is anxious to gain experience, a little fussing in the right direction is no doubt, time well spent, but all who cannot put their bees in winter quarters, with well ripened stores, may as well count on failure be-

fore, as after the wintering season is over. Ten colonies well wintered are worth more than thirty in a poor dwindled condition, that takes them all sum. mer to build up. Now, in mentioning winter quarters, we do not mean that they have to be placed indoors. door packing can be resorted to, with good results, sometimes better indoor, unless you have an extra good place to put them. We shall, perhaps, have more to say on this subject in another issue, as now is the time commence wintering your beesnot wait till you hear the sleigh-bells jingling, and the ground is covered with snow. Bees properly wintered early in the fall, or rather prepared for winter are likely to come through far better, than those so prepared late in Autumn.

Perhaps we might give the same advice here, that we gave to three gentlemen, who came a long way to get us to tell them just how to winter their We told them to go on and start wintering there bees now. But they said, "it does not freeze till about Yes, that November of December." is very true, but after it starts to freeze, the time has passed for preparing for winter. Bees may be prepared in Aug. or Sept., for out-door wintering, need not be disturbed until the following May, if desired. One gentleman marked, that as they had so much snow in his neighborhood, it would never 11 to leave his hives, for fear they would We told him if he would smother. shovel ten or fifteen feet of snow on top of every hive, if they smothered we would give him another colony the Spring for every one that smothered,

Our sweet corn has just been covered with bees, and they appear to get honey as well as pollen from it. Early in the morning they keep working and sucking about the tassels, but later in the day they appear to pay no attention We could see slight drops of de or nectar about the tassels, and is it not possible that the dew lighting on it may be sweetened, or does it secrete on the tiny stalks around the notion? tiny stalks around the pollen? have only a very small place perhaps fifty by hundred feet, but it does seem to yield an ammense amount of polled Our Hercules club leaves all other plants in the shade now.

GENERAL.

Chamber.

FOR THE CANADIAN BEE JOURNAL. New Heddon Hive with One Part Brood

 $\mathcal{O}^{\mathrm{OU}}$ will perhaps like to know how the new Heddon Hive works when the brood chamber is made in one piece. Said brood chamber being of the same dimensions an eight frame Langstroth hive, or, it is a Heddon Langstroth fitted with Heddon's closed and frames made 9½ inches deep so as to suit. The closed end frames work fine in the cases and one set of screws is more than sufficient to hold the frames up when the hive is inverted, even when the eight frames are filled with honey.

The hive as above made is, I think, a little head of the divisible brood chamber; and I tell you it is a long way ahead of the hanging frame hives. The frames can be handled much easier and with less danger of killing bees. With such a hive the frames can be inverted singly or by the case. It pays to have them invertible, even if they are never inverted but Once for the purpose of having the combs solidly built and completely fill the frames. The above is the condition of all the combs in my apiary this fall. It would do you good to see

The handiness of this hive when moving bees to and from "out apiaries" or to and from the Cellar or bee house can not be over estimated. You can handle them like a block of wood, and this too without disturbing the bees in the least. Respectfully yours,

J. C. DUFF.

Carleton Place, Ons.

Honey-Bees of America, Etc.

W. F. TAYLOR.

@ EE-KEEPERS of the western continent are now pressing largely after the yellow race. In scanning the advertisements of the American Bee Journal and Gleanings, we discover the fact that comparatively few are breeding bees from imported stock. teared in Italy are good honey-gatherers; but Cannot the same be said of some of the bees of America?

The truth is that climatic influences in Italy Rive an abundant honey-flow, which is necesthat produce good active honey gatherers. In this country the honey-flow lasts but a short time, and many queen bees are produced when

under these unfavorable surroundings, how can we expect to produce a good honey-bee?

To get our bees to equal the bees of Italy, it is only necessary to stimulate strongly by feeding while the bees are rearing queens. I feed my bees plenty of extracted-honey while they are feeding the larvel queens, until the cells of each colony are capped, and by thus stimulating. I get the same results as Italy gives.

I have just hand-picked the drones of a half dozen colonies-of course, these colonies are kept queenless so that they will not destroy their drones.

It is not the color-yellow. brown or blackthat gives the honey-bee, but that which has been reared under the stimulating impulse. If we can add the golden hue, we are that much ahead of Italy, and unless the breeders of bees and queens in Italy procure some of the yellow stock to breed from, they will soon be left behind in the chase. What I have said regarding the honey-gathering qualities, applies equally to gentleness.

One of the largest dealers in queens and bees in America buys queens from different quarters, has them piled up on his table ready to ship at a moment's notice; any queen-breeder could do the same, if he cared nothing for beauty and quality of bees. I would not purchase queens from any man, if I knew he did not rear his own queens, or warrant them to be as good.

QUEENS MATING LATE.

Owing to the cool weather, virgin queens have been slow to find partners this season. Two of my queens mated 31 days after they came from their respective cells. They were reared early in April, and met admirers May 11. I had reared a few nice drones, and thought I would get something handsome, but what was my surprise to find that these queens would not come out of their hives until so late in the sea-These queens are very prolific, and, I believe, are larger than queens that mate early.

To induce drones to fly thickly about the time queens come out to mate, drop a spoonful of honey at the entrance of the hive-not at the hive from which the queen emerges, but at the hive from which you wish the drones to fly.

CLOSED-END FRAMES.

A few years ago I tried a hive with closed end frames, and abandoned it; but since the matter was discussed in Gleanings last Winter, I made one hive with such frames, making everything true to 1/32 of an inch. As long as there were but a very few bees in the hive, these frames worked pretty well; but oh! me; to handle the bees are gathering no honey at all; and them now. After the frames are all in the hive but one, I pick up the last one and begin to slide it down between two frames. It goes about this way: There—now—go slow—be careful—almost down—very slow now—whoa—stop, till those bees crawl out there—but the bees are crushed, and I close the hive in disgust.

DRONE COMB.

I believe that for the extractor, drone comb in the upper story gives me better returns in honey than worker comb. The bees draw these large cells out to a further distance, and slanting upwards, which makes them shave nicely with the uncapping knife; then you have some honey when these combs are emptied.—American Bee Journal.

State Line, Ind.

Drone comb in the upper story, no doubt, will work well, but sometimes when the bees are crowded for room below, or if the brood chamber is all worker comb, the queen is liable to go up in the second story and lay in some of the drone comb. We would reccommend the use of perforated metel queen excluding division boards, on all hives having an upper story.

FOR THE CANADIAN BEE JOURNAL.

Pollen, Bees and Cherries.

N the July number of the Popular Science
Monthly is an interesting article on "Pollen,
Its Development and Use," by J. F. James,
M. Sc.; from which I make some brief extracts:—

The immense number of pollen grains produced by a single flower apparently militates against the saying that nature allows nothing to be formed but what is needful. It seems indeed a vast waste of material to have such a multitude of grains when so very few would answer the same purpose. In a single flower of the peony there are about three and a half million grains; a flower of the dandelion is estimated to produce nearly two hundred and fifty thousand; the number of ovules in a flower of the Chinese Wistaria has been counted and the number of pollen grains estimated, and it is found that for each ovule there are seven thousand grains. While few fall below the thousands, many rise far above the peony in point of numbers. These are the wind-fertilized flowers, and here nature must provide for an immense loss of material. Darwin says that "bucketfuls of pollen have been swept off the decks of vessels near the North American shore so covered with pollen that the water no longer appeared blue." The so called showers of soll-phur which have at times visited various cities, notably St. Louis, are nothing but clouds of yellow pollen blown from pine or other forest trees from some distant place. Perhaps, out of millions of grains thus scattered far and wide, only a single one may be of service.

As another evidence of the utility of bees to the horticulturist I give below "some remark able experiments of a Vaca Valley horticulturist" as given in the Vacaville Enterprise:—

The Bassfords are authorities on cherry culture. Meeting Henry Bassford the other day, an Enterprise reporter asked it the experiment of keeping bees among cherry trees was not being tried in cherry glen. We were informed that such was the fact, and learned much of interest relative to past experiences, present conditions and future expectations.

For several years the cherry crop of Vaca valley has been uncertain quantity. The famous Smith orchard has not had a first-class cherry crop since 1885, at which time they succeeded in bringing cherries of the early Purple Guigne variety into Vacaville on the 31st day of March, and which were shipped to the city and there sold April 1st. Other seasons the cherry crop has been only partially a success. The res. sons for this have been unaccountable, though it has been attributed to the varying conditions of the season, at one time a north wind, another a chilling rain. That these incidents had some effect is no doubt true, but that they were solely responsible was not believed by the Bassfords These observant gentlemen, whose experience in cherry growing goes back to a time when the neighborhood of Vacaville was not. as now, \$ vast orchard, recalled the fact that cherries used to be a sure crop, and sought for the cause of a change. It occurred to them that the bees, which in the early beginning of the fruit business in this section were numerous in the orch ards and which for several years back had been conspicuous by their absence, had something to do with the success of the cherry crop.

Acting on the theory that the fertilization of the cherry blossom was affected beneficially by the cherry blossom was affected beneficially by the presence of the bees, the Bassfords secured several hives and awaited results Last year, the first in which the matter was tested, the result was favorable, the Bassfords having cherries while other ranchers found their crops an entire or partial failure. This year the Bassfords have about sixty-five hives of bees, and if they succeed in making a cherry crop of old time proportions they will be prepared to

Vouch for the practical value of the honey bee as a mascot to a cherry man. Other orchardists are watching their experience with great interest, and may conclude that, to succeed in cherry culture, a beehive and a cherry orchard must be planted side by side.

THE WEATHER

of far, has been favorable to the fall flow of honey. The bees are working right along up to date (Arg. 22nd) on buckwheat, second crop of clover, dorn, golden rod, catnip, and other odds and ends, with the prospect of at least a week or ten days more of good work.

ALLEN PRINGLE.

Selby, Ont.

FOR THE CANADIAN BEE JOURNAL.

Foul Brood Combs Made Safe Without Melting Down.

EAR SIR:—At different times I have read your remarks that you have never been able to find any plan by which foul brood combs could be made safe for use without melting down, but that you did not despair of being able to do so yet.

I know that one can hardly exercise too much care in dealing with the disease, yet it seems to that at least in slight cases where there are only a few cells affected in the hive, the combs, after having the cells uncapped and honey extracted, might be disinfected so as to be perfectly safe, by carefully immersing them in water containing a certain per centage (say 1 in 500) of pure carbolic acid, till all the pollen and everything else of a soakable nature was saturated thoroughly, then using the extractor to throw all out that would come. Of course every cell would have to be uncapped, and care would have to be taken that the water was not excluded from any by air remaining in them. Dipping the comb perpendicularly would possibly accomplish this best.

Pheshire has shown that the bees can clear out the disease by carrying in the disinf-ctant with feed given them, and it has been shown by Muth that by spraying every cell the disease can be eradicated for the time being, but the weak point with the systems seems to be that latent germs may remain concealed under pollen or elsewhere, where the disinfectant cannot get at them, and so they are apt to start the trouble attent; but it seems to me that by immersion, be perfect, and every possible germ be reached. It not troubling you too much and the question. Is of sufficient general interest, I would be glad

to know whether your experiments have embraced this line of treatment, and, if so, on what account you concluded it to be a failure, or unreliable.

I am yours respectfully,

R. W. McDonnell.

We have soaked combs for hours and days, in various solutions—salsalic acid, carabolic acid, and absolute phenol; In one instance we soaked them three days. We have sprayed cells that were effected with foul brood, thoroughly, and after all, had the disease start again, when the combs were used. We have never been able to cure the disease by spraying combs, or soaking them in any solution. We have in very slight cases, where we only found half a dozen or less cells affected, extracted the honey, cut these cells right out, burned them, and sprayed the combs thoroughly several times. then extracted the honey again, sprayed the combs again, and just kept this up for from one to two months, cutting out and burning every cell that appeared from time to time, and yet occasionally a cell of foul brood would appear. After exercising all the care and diligence possible, we became disgusted with that kind of tinkering, and adopted our old methods again. Probably if we had continued it for two years, we might have succeeded in curing the disease, but the trouble, danger and time was too great. Life is too short for us to waste it all curing a few colonies of foul brood. Stamp it out at once. You will see by the back numbers of Gleanings, where A. J. Root brought all the skill and patience to bear, that he could muster, and yet had to fall back on the fasting system, and has almost come to the conclusion, that there is no use trying any other.

Punic Bees.

WAS much amused with the satirical remarks of "Veritas" which you copy from the American Bee Journal in yours of June 15th respecting the perfection of Punic Bees.

In the British Bee Journal of July 30th, page 343, the following is a reply to R. L. G. W. California:

"No such race of bees as you name is known to entomoligists, nor do we know any one who has cultivated them. Until we have some trustworthy information, the account you allude

to provokes an incredulous smile. No doubt the old proverb "a fool and his money are soon parted" still holds good, and it is quite possible some may be found gullible enough to believe the fabulous stories."

At the annual exhibition of the British Bee Keepers Association held in conjunction with that of the Royal Agricultural Society, of England, at Dorcester, Mr. John Hewitt, who writes as the "Hallamshire Bee-Keeper," had a small glass case containing what he called "Punic Bees." A single frame of old dirty comb, without either brood or honey, was partly covered with dark bees, but there was no queen.

It would have been impossible for them to have been shown, to a greater disadvantage, hundreds were dead, and the remainder in a half starved, half suflocated condition, for they had no means of flight, and nothing to eat. Mr. Hewitt staged them himself, 1 could not form any opinion of their appearance when at liberty, from the slovenly way in which they were shown, and the lamentable condition they were in. They may be all that is said of them, but they can hardly be expected to live without food and air.

I would strongly endorse the opinion of your European friend and advise intending purchasers to pause and "to go very slowly" and keep their money in their pockets. Another old proverb says "a word to the wise is sufficient for them." Punic bees are not advertised in any English bee paper, and I am unable, among my bee-keeping friends, to hear of any one, who has ever seen a colony at work.

JOHN M. HOOKER.

8 Beaufort Gardens, Lewisham, England,
Aug. 11th, 1891.

Artificial Heat to Promote Brood-Rearing.

SAMUEL CUSHMAN.

HIS is a continuation of the Report of Apiculture at the New Jersey Experimental Station, contained in Bulletin No. 7:

An experiment was begun May 14th, 1890, with two colonies (Nos. 4 and 14) which had been wintered in the cellar of the station farmhouse, and were in about the same condition. Thermometers were so placed that "each hive had one in the cluster and another in the most remote part of the hive body, outside of the cluster, and both of these could be read without disturbing or exciting the bees."

When the experiment was begun, four thick stone bottles, each holding a half pint, were filled with boiling water and placed back of the

division-board in hive No. 4. This was renewed each morning and evening until Jnne 20, while a record was kept of the thermometer readings for the remainder of the month. The next morning before the water was renewed the common thermometer outside the brood-nest is No. 4. stood at 68°, while in No. 14 it was at 66°. The artificial heat had apparently increased the temperature of the empty corner of the brood-chamber, leaving it at the and of 13 hours 2 or 3 degrees higher than the same space in the other hive.

The thermometer among the bees of No. showed a temperature of 86°, both in the morning and at night, while in No 14 it stood at 84° and 97°. The records for the rest of the month showed that where the heat was used the average temperature of the cluster at night and in the morning was no higher, and that when there was any difference between the two the temperature of the cluster where the heat had been given was the lower.

The records also show that the temperature of the hive outside of the cluster, 12 hours after the hot water was renewed, was many degrees higher than where none had been given.

The weather much of the time was very cold and changeable. The artificial heat was of the greatest value during the night and on chilly of sunless days, and better enabled the bess to cover the additional number of eggs and large that they had started to rear during warm, sunny days. * *

On May 31, at eleven o'clock, and just before the thermometers were removed for the season, the one in the cluster in No. 4 indicated 94 o' and out of the cluster 73½°. The bees then covered seven combs, one of which contained honey while six were full of brood. Those in No. 14 registered, in the cluster, 94°; out of the cluster, 71°. Of the seven combs one was empty, another was full of honey, and five were quite well filled with brood, and six of these were covered with bees.

No. 4 steadily gained in bees and brood up to June 20, when the artificial heat was discontinued. No. 4 overflowed the brood-nest long before No. 14 had used all the combs, and by July 1 occupied two brood-chambers and was about twice as strong.

Both were run for extracted honey, and on July 18th the honey was extracted from the upper story of each. The amount obtained from No. 4 was 35 pounds, and from No. 14, 16 pounds. There remained in the lower story of the latter 3 or 4 pounds more than iu No 4. As the building of queen-cells in No. 4 soon caused us to remove the queen for a time and changed

the conditions, the colonies could no longer be compared, and this ended the experiment.

Before such an application of artificial heat can be generally recommended further work should be done, with the conditions more favorable for accurate comparison, and on a more extensive scale. In this case, apparently just enough heat was given, and in such a way as to increase the rearing of brood without causing an abnormal condition of the colony, a much larger amount of surplus honey being thus secured.—Experiment Station Record.

We have tested this same matter a little, and thought that it gave good re-We did it with hot bricks, by placing the hive in a saw dust packing Case, which would keep an even tem-Perature. Have the hive so fixed, that six bricks could be slipped in under it, the bricks just as hot as they could be without setting the boards on fire. Lay down ten or more thicknesses of paper on a board, put on your hot bricks, and fold the paper over them, slip them under the hive from behind, which is banked round with saw dust to keep the heat from escaping. to the trouble of properly preparing the hive, you can make the bees do double the 'you can make the best frooding that they would in the ordinary way, in fact, we have had them so hot, that on frosty nights the bees would cluster out about the en-

We found it most valuable in early queen rearing, as we could build them up so strong in this way, that they but after we got our early queens raised, we found that we had to beat the hive to get the drones to fly out. and although when the weather was cool they would just circle about the hive a short time and return

Now, these two parts of the experibricks worked well, but we had not sufficient to warm up the entire atmosit would be suitable for successful largely on the condition of the atmosphere.

If you require catalogues, circulars, note binding give us an opportunity of estimating.

How to Find a Queen.

G. M. DOOLITTLE.

HEN settled warm weather comes in the Spring, it is necessary that each colony contain a prolific queen, for if the queen in any colony should be old and failing, that colony could not be brought up to a proper condition to work to the best advantage during the honey harvest. As the queen is mother of all the bees in the hive, she must be able to lay rapidly so as to increase the population of the hive, and if such a one is not in the hive she should be superseded with a better queen.

It also often happens, that the queen which the hive contained during the Fall, dies in early spring, and in that case it is absolutely necessary that the bee-keeper knows it, else that colony will perish, for the bees which have been wintered over, rapidly die off with the work which now devolves upon them, for old age is brought upon the bees sooner or later, according to the labor which they perform.

There is no way of knowing to a certainty what is going on inside, except by opening the hive and inspecting the frames. To know if there is a queen in the hive, look closely at the combs, and if no eggs or small larvae are found in the bottom of the cells, at a time when the bees begin to bring in pollen in the Spring, you can reasonably expect that they are queenless, while if the eggs are few and scattered about in different cells, without regularity, the queen is unprolific.

To be absolutely sure that a colony is queenless, take a frame of comb having eggs and little larva in it, and put it in the centre of the supposed queenless colony, leaving it for three days. If queenless, queen-cells will be formed over some of the little larvæ, while if no such cells are started, rest assured that the bees of this hive have something which they are respecting as a queen, and which must be found before a good one can be introduced.

To the accustomed eye of the practical apiar-\
1st, prolific queens are easily found, especially
if the bees are of the Italian race; but a virgin
queen is often hard to find by an expert. The
best time to look for a queen is about 10 o'clock,
on some bright, warm morning, when the most
of the old bees are in the field after pollen and
honey.

Open the hive carefully, taking out the frames slowly, and making sure that you do not hit them against the sides of the hive or anything else, so as to make the bees nervous, thereby setting them to running or stinging. When you

have the first frame out, look it over carefully, and if you do not see the queen, set this frame and the next one in a box, or in some secure place where you can leave them out of the hive till you look the others over.

After these two are out, you have the hive so that you can see down into it quite well. On taking out another frame, glance down the side of the next one in the hive, when the queen will often be seen running around to the opposite or dark side of the comb, for young queens are shy. In thus running she shows the sides of her abdomen, to the eyes looking obliquely down, to a much better advantage than could be if the eyes were looking directly upon her back. If you do not see her, look on the opposite side of the comb you hold in your hands, looking obliquely as before, for she will be on one of these dark sides if anywhere on the comb. In this way keep on until she is found, or all the frames are taken from the hive. If unsuccessful. close the hive and try again in an hour or so, when success will attend your efforts.-Rural Home.

Porter Bee-Escape.

WISH to add my hearty endorsement of the Porter Bee-Escape. It is a most excellent implement. Ruse is worthy of great praise for bringing this idea before the bee-keeping public. Dibbern should have recognition for his suggestion, but the Messrs. Porter have so perfected the instrument, that success is certain in every case. Like the bee-tent, this invention is worthy a place in every apiary, and its merits are so patent that it will soon take this place. No bee-keeper can afford to be without it.

A. J. Cook.

Agricultural College, Mich.

Sweet Corn as a Honey-Plant.

HAVE been watching with interest the bees working upon the tassels of the corn, and I have come to the conclusion that they gather honey as well as pollen, for they dive deep into the bloom, away from the pollen dust. Corn fields will be quite an attraction this Fall for bees, as the rains have brought up Polygonum pennsylvanicum since the last plowing, and also where early potatoes have been dug. Some seasons this plant yields white honey abundant. ly of a pungent flavor, disagreeable to some persons. A few days since, the Sny levees in the western part of the State, bordering the Mississippi River, were overflowed in June, and the crops destroyed, when this plant, which some persons call smart-weed, took possession, and thousands of acres were waving like billow of the sea. Messrs. Dadant, of Hamilton, Ils., moved their bees thither, and were well paid for their work.—Mrs. L. Harrison, in Prairie Fat

Clipping Queens' Wings.

FTEN we can have the most interesting friendly discussions upon the raplies gives to queries. The replies must a necessity be short, and should be followed up by a series of articles. I notice quite a few in reply query 307 advocate clipping a queen's wings There is no doubt that the extensive bee-Keeper who can be in the apiary at all times and watch his bees closely, will find it to his advantage clip queens' wings, but when the conditions such that a man cannot be on the spot when the swarm commences to issue, I think to clip is

I have other duties than those in the apier and the hiving of swarms has sometimes to left to unexperienced hands, and I have found that to such, the clipped queen often gets and in attempting to follow the swarm and is lost The injury which may result from such a los I do not require to describe here. It would appear to me, we should be cautious about advising the clipping of queens' wings. man of experience, I heartly say do so, but of the bee-keeper who has only a limited power of picking out the queen, it is not advisable. are perhaps apt to forget to look at a question from the standpoint of another, hence many of our differences.

R. F. HOLTERMANN.

Brantford, Ont.

A Good Season in N.Y.

In a letter from Mr. W. M. Barnum Angelica, N.Y., we find the following:

Bees have done nothing in this neighborhood this season. Not one in ten colonies have and any swarms, and hardly 20lbs of honey to colony will be realized. A great many keepers are becoming discouraged. But, as no myself, I shall purchase more bees and my 'platter' right side up. The harvest when it does come will make it truly a year of jubile for the bealfor the bee-keeper who is prepared. Fraternally, W. M. BARNUM,

Angelica, N. Y., Aug. 26, 91.

Please send as the names of your neith bors who keep bees, that we may forward of of the Bre Journal to them. A postal cards five minutes time will do it.

Honey Dew for Wintering.

BY JAMES HEDDON.

R. QUIGLEY:—I learn that there is much honey-dew being gathered at present in your state, and what has heretofore been written concerning it as a winter food for bees. There is no doubt but that many of your readers are solicitious concerning the welfare of their bee stock for the coming winter.

My experience, observation and reading, relative to honey-dew and wintering bees, compels me to repudiate an idea, at one time quite prevalent, that honey-dew, cider, and such stores are potent causes of winter losses. Many of your readers are aware that I imagine I know the cause of bee diarrhoea, the one great cause of our winter losses, and that it results from the consumption of pollen, eaten as bee-bread, or in the form of floating pollen in the honey. I wish I was as sure of many other problem connected with our pursuit as I am of the

One fall my home apiary, numbering about 150 colonies, gathered a large quantity of cider; in fact from examination, it seemed as if most of their stores were of apple juice, yet the bees all wintered exceptionally well. A few years ago there was a great gathering of honey-dew through this part of the state. My friend, Dr. 800thard, of Kalamazoo, who had at the time something over a hundred oclonies found that his bees must depend mainly upon honey-dew for their winter supplies unless he emptied the bives and fed them other stores. The Dr. is a very able physician and consequently somewhat of a chemist, and not being able to understand lust why his bees could not winter successfully apon dark colored, pungent honey-dew, as was pposed by many bee keepers who had been eager to express their opinions, not based upon real proof. He went to work with the extractor and fed up five colonies so they had nothing but clear honey-dew to subsist on the following winter. The result was, they winter. ed perfectly, showing no more signs of the old destructive malady than other colonies whose combs contained no honey-dew whatever. I think we may safely conclude that we have no reason whatever to fear any disastrous results from wintering our bees on stores from honeydew I know of no one who has reported to the contrary, who has given the matter even one tair and comprehensive test. All on that side of the of the question, so far as I know, have written bolly from supposition based upon imagin-

Dowagiac, Mich., June 30, 1891.

Sugar being very cheap now since there is no duty on it, we would advise all to watch, and when honey dew is gathered extract it and feed on sugar syrup. The honey-dew may be kept till spring, and then fed to the bees after they have had a spring flight. Bees if fed liberely, after they commence gathering pollen in spring, will raise brood much more rapidly, so that there will be no loss in keeping on the safe side. Honey-dew may differ in quality in various localities, but our Canadian honey-dew is the very best kind of food for killing bees.

The Bees

First bees in rocks their habitations sought, Or in hollow trees their wonderous structures wrought,

Till man a more commodious mansion gave, And called them from the woods and dreary cave.

Invited thus to neat and ready bowers, They cull the choicest of the vernal flowers, Survey the enamelled plain on rapid wing, Range o'er the lawns, and rifle all the spring: Succeeding blooms their arduous toils renew, To steal the sweets and sip the nectar'd dew. Ruled by a queen with all the pride of state, A numerous guard around their monarch wait Some from the busy hive explore the way In search of sweets amid the blooms of May; Others the wax in various hues collect. Part build the comb, and some the work inspect. What skilful artist better knows to trace Such cells complete within a given space? The young no sooner hatched, impatient try Their unused wings in air, and boldly fly O'er groves and meads, for fragrant treasures

roam,
And instinct guides the little wanderers home.
Ah! leave them happy in their copious store;
A part they'll give, and why desire ye more?
In just return, the happy race reward,
From chilling winds the peaceful mansion guard;
Regale them, too, upon some smiling day,
Thy tender cares they amply will repay.

BRYAN I'ANSON BROMWICH, M.A., 1754.

An enthusiastic Apiarist, living at Kirton, mounted on a safety bicycle, followed a swarm of bees for two miles on Wednesday afternoon, and after safely hiving the wanderers, returned home with the skep containing the numerous living freight securely fastened to the frame of his machine.'—Gleanings.

Not Gloves, But Oil of Wintergreen For The Hands.

A SUGGESTION FROM A DOCTOR IN AUSTRALIA.

EARSIR:—The May numbers of Gleanings arrived a few days ago, and I see that the writers in the Ladies' Conversazione are much exercized in their minds on the subject of gloves for apiary work, and all sorts of materials are recommended, from pigs'-skin to sheep's-wool. Gloves are no doubt of use to keep the hands clean and soft; but I want to tell the ladies that, so far as stings are concerned, they can do without any covering for the hands. Just let them get some oil of wintergreen and rub a few drops of it over their hands; and if they can get a bee to sting, unless it is hurt, they are cleverer than I am.

It is now mid-winter here. The day is dull and threatening rain, but the temperature is not low enough to keep bees indoors; the day, however, is of the kind on which they are usually cross; but just now I went out, and, after putting on a veil and rubbing my hands with oil of wintergreen, I removed the cover of a hive and stripped off the mat, which was stuck down with propolis. The bees came at me in fine style, and dozens of them struck my hands : but as a rule they went off at once. Some remained, and curved their bodies around so that it took some strength of mind so prevent me from knocking them off; btu they always thought better of it before the sting went in. I then jarred the hive and jerked my hands over the frames; but, though numbers of bees struck my hands, I was quite unable to get one to sting. I repeated this with two other hives, with similar results.

I know that the use of oil of wintergreen in this way is not new; and Mr. Cheshire, in his "Bees and Bee-keeping." Vol. II., describes some experiments smilar to the above which he and Mr. Simmins conducted; but they do not seem to have taken root, and I noticed that, in your review of Cheshire's work, you do not mention it. I feel convinced, however, that, were the fact more generally known, gloves for handling bees would soon become things of the past.

The smell of oil of wintergreen is not disagreeable, and it does not soil the hands. It is, moreover, easily washed off afterward. Cheshire says that, in England, it is often adulterated, and it is here also; but, of course, I know that they wouldn't do anything like that in America. They might, though, in Canada.

H. MILLER, M. D. Warrnambool, Victoria, Australia, June 29.

[Is rot oil of wintergreen the chief ingredient of apifuge, a substance that is sold in England as a preventive of bee-stings when smeared over the hands? The stuff did not prevent the beef from stinging our hands, although it did seem to make them hesitate a little. We accept the very fine compliment you pay us Americans. We wish we deserved it.]—Gleanings. E. R.

For THE CANADIAN BEE JOURNAL.
Wintering Bees in Manitoba-

Sire—Would you kin'ily explain in your next issue of the Bee Journal what you consider would be the best way to winter bees in Manitoba, that is what shape to put them in to bring them through the extreme cold of a Manitoba winter. Yours truly.

ALEX TRIMBLE, Hampshire Mills, Aug. 20th, 91.

Some people in Manitoba have winter ed their bees splendidly, by setting them in a row close together, and piling prairie sods on the back and at the ends, about two feet in thickness, leav ing a space of about one foot between the sod and the hive then packing them all around and on the top with chall, say one foot, the sods on top of the chaff. The entrance was left open in front, as the hiv sat about two feet The sods were back under the sod. piled up like bricks in front, and little poles on them, which left a space of about two feet in front of entrance, then plenty of straw was piled over this space, some left the space open except in the coldest weather. It was a soft of bee-caves on top of ground. One of these sod cave would last for years, and they are quickly and easily made Some have wintered out-dcors without any protection at all, as the atmosphere is so dry, that the bees do not suffer from the intense cold like they would in a damp atmosphere. Some have driven a few stakes down around the hives, putting chaff in next to the hives and long straw next to the stakes. do not think the intense cold of the North West any serious objection ha wintering because the dryness of the atmosphere makes up for the difference in temperature.

quested to forward us, at the earliest possible moment, the dates of their meetings; and the convention is over, a full report of proceedings.

From R. McKnight, Owen Sound.

N your issue of the 15th, Aug., Mr. Bottenman critizes the prize lists of some of the leading exhibitions as, far as the Bee-Keepers to affected. It is a very easy thing to find and Mr. H. would be doing the community, and Mr. H. would be doing the community. ity to the service if when he takes exception to present state of things he suggested a benedy for fancied or real defects. He has not done this in any of the cases to which he refers. lam ple sed he has written the article howthe sed ne has written and a man it may lead to a closer consideration and t more just appreciation of one of the prizes on or own "Industrial" list. A clearer notion of its intention than seems to obtain in the minds the exhibitors and judges is, I think, desirble. I refer to the very handsome prize for the most tasty and neatly arranged exhibit. Mr. H. admits that the points here are clearly bet out. But he says a change in the prize list change should take. If he refers to this particular prize he admits the conditions are as Clear as noonday. I had the honor to suggest his prize some years ago, and I have had something to do in its modification since. The best byidence of its wisdom is found in the fact that it has been copied into nearly all the important Prize lists in the country in some form. I am hations to learn what improvements Mr. Roltermann has to suggest. I regret to say that in my judgment its import and its aim has been him. bisunderstood by both exhibitiors and judges to some extent. It was established with but one end in view, that is to cultivate a higher better taste in the manner of displaying boney than prevailed hitherto, and to create emplation among exhibitors as to who can pretheir goods to the public gaze, in the most thery and artistic way. I fear the judges on brond artistic way. 1 1000. On one occasion I saw a gentleman's exbibit passed over without even being commendwhich should have got the red tickat. That is to should have got the transition of the heatest and say in my judgment it was the neatest building. Mr. and most tasty display in the building. Holterman is right in supposing that quality bould not be an element in leading the judges to a conclusion. Symmetry, proportions and design together with a blending of colors and hinds in such a way as to make a harmonious blole, are the points upon which the awards thould be based. Of course men will differ upon the paints and judges are but men. The The of the honey should not affect the award. The quality of the same honey is pronounced and awarded prizes on its merits before favorably of this plan.

this special feature is considered at all. And the quantity of the honey only enters into the matter, in so far as it enables the exhibitor to present variety. In this respect the man with a large quantity has an advantage over the man with a small quantity if he makes use of it. But quantity if monotonous in its make up will have little neatness or taste about

R. McKnight.

We are very glad, friend McKnight, that you give us this explanation in reference to the prize. As you are the person that had the prize so arranged, no doubt you are best able to judge the intentions of it, and we are fully aware, that that was the intention at the time the prize list was arranged, and we see every day, the necessity of putting up our goods in a nice attractive form. is something that we have all neglected perhaps too much, even the rough cases sent out, should be so labelled as to indicate the contents. Keep honey before the people's eyes, and they are less liable to forget it on the table.

Preparing for Next Season.

HE honey crop, so far, is very light, but the queens keep brooding and hives are very full of bees-so much so that they keep right on swarming, and in order to utilize the surplus bees I have removed a number of hives from their stands and set empty ones in their places, with foundation in frames. I am removing these frames as fast as they are partially drawn out and foundation attached to them and replacing with other sheets of foundation. I am also placing two or three cards of foundation in full hives, and having it drawn out, thereby securing combs in good shape for the season of, 92. I have done this for two years and think there is a great advantage in having these combs ready in advance of our needs. This prevents the probability or possibility of combs sagging when putting swarms on them, as they sometimes may do in extreme-ly hot weather. Our bees are working lightly on basswood at present, in this locality, but we do not anticipate very much from them, judg-ing from appearances. If we do not get more honey the price will rule very high this fall and winter.

J. H. DAVISON.

Mount Forest, Aug. 11, 91.

Your plan of putting foundation in between two brood combs and the brood chamber, and having it drawn out when the bees are not doing much, is a good one. Such combs are spndid stock and we have many letters speaking very

What alls these Bees?

HE following communication was received in a private letter from Dr. A. H. Bennett, Barrie:—

I have a question I would like answered if possible, and I do not know of anyone more capable than yourself.

I have a hive of beautiful Italian bees that did fairly well during the forepart of the season, but during the last six or eight weeks it would seem as though the old fellow himself had got amongst them. They came out in hundreds on the alighting-board and on the ground beside the hive and two, three, and even four bees will get at one and jerk and maul it around as though it was daubed or had insects on it, or even as though it were a robber, although they do not catch them by the legs so much as they would a robber, but they actually do sting a few to death and worry many more so that they die. They also seem to delight in catching a loaded bee when they alight on the board and worry and pull it around till they get all the pollen off its legs, and I fancy sometimes, make it disgorge its honey. Woe to the poor drone that walks out among them, as they make short work of him, never letting him go till they have mauled him to death. The queen is a splendid breeder, keeping the hive always full of brood and produces an exceedingly bright and beautiful three banded bee and there seems to be a lot of splendid workers among them, for in spite of their wory, I have taken over 50 1bs of surplus from them and they were in a very weak condition inthe spring. Cool days they do not seem to be as had, unless they perform inside, but warm days and nights they keep it up continually-scores and even Lundreds on a very hot day, all at it at the same time. If you could tell me what is the matter with them and what I could do to cure them, I would be ever Yours truly, so rauch obliged.

Barrie, Aug. 28th, 1891. A. H. BENNETT.

We do not know what can cause your bees to act in this strange manner. have never had a case of the kind, but have often had the young bees fly out and play, roll over each other, and perform similarly to what you describe, and also driving out and killing off the drones. But why they would kill each other, when there were no robbers about, is a mystery to me. When robbers begin their work the robbed bees sometimes become so enraged at the robbers that they would attack their own bees sometimes in their excitement, when they would first light down. We think, however, there must be robbers about. Perhaps some of our friends have had a similar experience, and will be able to give us some light on the matter.

CAPPINGS.

CUT FROM A VARIETY OF COMBS

CONE-SHAPED SUPER-CLEARERS.

On the 8th instant I took a crate of section off a hive, using a cone super clearer, with very satisfactory results. The cone remained the hive three hours during the atternoon, we weather being fine and sunny all the time. The removing the crate there were not more six or seven bees left on the sections, which had been packed before. As I use excluder sing above frames, the awkward effects resulting from the queen being in the super are minimisted.—R. CLAY, Newcastle-on Tyne.

A QUEEN LAYING DRONE EGGS AFTER BEING CHILLED.

In June, 1890, I started a nucleus which rather weak, but succeeded in rearing and Italian queen, and in August it was strong running over with bees. Jan, 7, for some accountable reason, the queen bees and all left their hive is two farms. their hive (a two-frame box 3½ in. x 10 x 18; jp. long) and clustering on the front of 3 in close by. During the night we had a cold rain, or sleet; and when I discovered them in the morning they were morning they were more or less covered with ice. Supposing they were all dead, I brushed them off and found the queen, which, to all and pearance, was chilled to death; but after holding her in my hands a chilled to death; ing her in my hands a short time she began was show sings of life, and in a few minutes distribute. During the lively. During the same day, Jan. 7. I covered a queenless colony which was the lively weak and after house the same day. weak, and after laying the chilled bees in put sun awhile, most of them revived. I then the queen and all into the the queen and all into the weak colony. It being cold again until about the 20th I did not amine them until that time, and found quite tot of eggs and some capped brood; but all had to the appearance of a second control of the appearance of the appearan the appearance of drone brood. After that examined them every warm day until March 25th and found the 25th, and found that nothing but drone eggs had been laid by the current warm day until Market had been laid by the queen since she was placed in the hive. Was the cause of her laying all drone eggs the result of her being ability and the same of the being ability and the same of the same ability and the same ability are same ability. eggs the result of her being chilled?

R. J. Andeson.
Palouse City, Wash., July 17.

You are right friend A. The fact that freezing would injure a queen so that she would produce only drones was given by Baron von Berlepsch. You will find an account of his experiments in a little book called "The Dzierson Theory."]—Gleanings.

ONE FOR THE DOOLITTLE, QUEEN CELL CUPS.

Hip, hip, hurrah! We are having successive the Artificial cups are now accepted by the of the artificial cups are now accepted by the bees, and built out into large handsome only without this plan we should be short, at it time of year, of cells for queen-rearing everybody has as good success as we are having, it is going to be a great boon to keepers, from the fact that we can breed allow almost all, queens from a choice mother, allowed the dozen or two as we were obliged to do by the old methods.—Gleanings.

A WORD FOR THE C. B. J.

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Words of praise were spoken last month by the Review for the J.B J. They were deserved. Is note that two issues show that the praise though Bro. Jones had been in hiding for months and months and had now been found, tought out into the company and made to "talk turkey."

We fear brother Hutchinson that we scarcely merit the kind remarks you make about us. We are forced to give less attention to the Journal than we would like, on account of the press of the result of the press of rangements by which we expect to be even though we have to take them very frequently from the Review.

AGAINST THE YELLOW CARNIOLAN.

Henry Allen, in the American Bee-keeper, argues that black Carniolans will very speedily development the race; and, divelop the yellow tendency in the race; and, by the yellow tendency in the race; and, by way of proof he urges a trial of the experiment. He says that in-breeding of black Carbolans will develop, sooner or later, bees with lellow bands. While it is true, that two of the imported Carniolan queens we had showed a tendency toward yellow in their bees, yet it hears to the state of seems to us that, if Mr. Alley's theory were correct our that, if Mr. Alley's theory were Correct there would be no such thing as black Carniolans at present, because the yellow tendency would, years and perhaps centuries ago, bare obtained, years and perhaps centuries ago, baye Obtained entire predominance and there black Carniolans. As hould be ro such thing as black Carniolans. As it is, most of the Carniolans we have ever seen or real Cleanings. or read about have been black.—Gleanings.

Dr. Miller proposes, or, rather, advises, the pedial for the nameless expediency of another name for the nameless bee disease." It is a shame that this misnomer has cusease." It is a shame that this mineral shape shape shape and shape shap side of the Atlantic, for designating a peculiar malady that affects bees. Perhaps we are responsible in a great measure for it. At any tate, with the, with the concurrence and agreement of the editors of other bee-journals, we propose to accept, as a better name, "be paralysis" (Bacilbus depilis). Regiland, I believe. By Cheshire it is called decillus Gaytoni. The termination depillis is described. descriptive, while Gaytoni is derived from a hame a Miss Gayton who called Cheshire's Attention to it. We like depillis better, because it means without hair of fuzz, and this just exdepilis.—Gleanings. describes bees afflicted with Bacillus

BRESWAX, ITS PRODUCTION AND USES.

A large amount of honey is annually consumdin the various industries and manufactures, while the commercial value of beeswax is very imported into Great Britain, while Russia uses party 5,000 tons in the ceremonies of churches. DOUBLE SLOTTED SECTIONS.

Mr. Ed. Bertrand, editor of the Swiss beeperiodical, Revue Internationale d'Apiculteur, has issued an illustrated pamphlet in French, descriptive of the modified Dadant hive, which he is introducing in that country. Sections are used in it with entrances on all four sides, in wide frames, having tin separators with holes in them to admit the bees from one section to another. It can be obtained of the author at Nyon, Switzerland, for 10 cents.

A great many years ago we introduced the double slotted sections, and we have frequently urged their use to beekeepers, although there are a few yet, who seem to think there is no advantage in the double slot. That, doubtless, is owing in a measure to the way in which they use them. The perforated metal we introduced into America, had many opponents for years, but we knew it had come to stay and said so, and now after more than ten years trial, its use is increasing every year, and many who opposed it most strongly at first, now We predict the same result for the double-slotted sections. They have many advantages which we saw when we first invented them.

YELLOW (?) CARNIOLANS.

Some of the discussion upon the socalled "yellow Carniolans" reminds one quite forcibly of the bee journalism that has past and gone.

There is no doubt that yellow bees can be found in Carniola, but it has been explained how they came there, that they have intermixed with the yellow bees of Italy. The point is right here, Carniolane are a dark variety while Italians are yellow. To secure bees from just inside the border of Italy, bees that had received a dash of dark blood from an adjoining country, then breed out the yellow blood and sell the result as black Italians, would be exactly in line with what is being done with the That the bees sold as "yellow Carniolans. Carniolans" are good bees no one has expressed a doubt, that their immediate ancestors came to this country from Carniola may be equally true, but to call them typical Carniolans would be as absurd as to call an octroon a typical African.—Bee-Keepers Review.

Quite right; any beautiful yellow bees that will reproduce themselves, are about as far from being Carniolans as the east is from the west, or perhaps we should say they have no Carniolan blood in them. Better call them by their right name, and call them good bees. We care not what the name is, so long as the bees bring us plenty of dollars and cents.

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.

QUERY No. 309.—Shall I leave the buckwheat honey in the brood chamber for wintering, or extract it? I winter partly in cellar and partly outside. Bees are pretty sure to have one fly each winter wintered outside. W.B.

G. M. Doolittle, Borodino, N. Y.—Buckwheat honey is as good for wintering as any.

JAS. HEDDON, DOWAGIAC, MICH.—Leave it in. It is as good to winter on as any honey.

G. A. DEADMAN, BRUSSELS.—I have had no experience with buckwheat honey.

PROF. A.J. COOK, LANSING, MICH.—Leave it by all means. It suits the bees but not the market.

EUGENE SECOB, FOREST CITY, IOWA.—I believe buckwheat honey is all right for wintering.

J. E. POND, NORTH ATTLEBORO, MASS.—Leave it in the brood chamber. The bees will winter on it as well as on any other.

ALLEN PRINGLE, SELBY.—Leave it in the brood chamber. I have wintered more bees on buckwheat honey than on any other kind, and wintered them successfully.

- R. F. HOLTERMANN.—All things considered would allow a certain proportion of the apiary, to winter on the buckwheat but do not mix the buckwheat with light honey to winter on.
- G. W. Demaree, Christianburg,—Well I don't know enough about your surroundings climate etc., to sanswer your question in s reliable way. In my own locality buckwheat honey would be all right as a winter food, for bees.
- J. K. Darling, Almontr.—Buckwheat honey is good for winter stores, but I would not leave more in the hive than would be safe to last until next clover bloom, as it is not as nice in the spring as in the fall. It is liable to get thin if there is any dampness in the hive, perhaps not any more so than other honey.
- J. F. Dunn, Ridgeway, Ont.—Leave the buckwheat honey in the brood chamber. This is something I feel positive about. We often have from 25 to 50 acres of buckwheat within 1½ miles. A good deal of honey that is sold for buckwheat has very little buckwheat about it.

A very little buckwheat honey mixed with a large quantity of other honey will give it quie a distinct buckwheat flaver. I feel sure that good many who have fed what they have called Buckwheat honey for wintering, have fed honey dew, with just enough buckwheat to give it the characteristic flavor. I have fed twenty lbs of clear bucwheat honey for wintering when lbs of clear bucwheat honey for wintering when lees had but few flights and they wintered perfectly.

Good buckwheat well ripened, splendid winter stores, and your bear will winter well on it, but be sure your hives are kept sufficiently warm while they are storing it, so that it will thoroughly ripened. Right here let us say, fall cases are very valuable packing hives, in order that late honey may be better ripened. This is a very important point, not fully appreciated by many,

Query No. 310.—From what source is honey drawn—the earth or the air. What atmospheric conditions are most conducive to its flow—and why?—E.F.

- G. M. DOOLITTLE, BORODINO, N. Y.—Ask Prot Cook or Pringle.
- J. K. DARLING, ALMONTE,—I will let some other person answer these questions.
- J. E. POND, NORTH ATTLEBORO, MASS. Who can tell? Allow a Yankes to ask a question From what source comes the wool on the sheep back; or the hair on the horse, both feeding in the same pasture?

JAS. HEDDON, DOWAGIAC, MICH.—From the earth. I begin to think that no one can tell just what almospherive conditions are needed to make nectar flow, in any given year or climate.

PROF. A. J. COOK, LANSING, MICH.—I presume mostly from the air. Vegetable, like Animal metabolism is too complex to permit a certain answer. I should say a warm moist open probably I better say I do not know.

ALLEN PRINGLE, SELBY, ONT.—From both.
The right temperature, the right degree of midity, and the right electrical condition.
What these are and why they are, we will doubt be a considerable time in finding out.

EUGENE SECOR, FOREST CITY, IOWA.—From the earth, but certain atmospheric or electrical conditions are necessary to its secretion. Median temperature and an average precipitation preferable in my judgment to extremes.

G. A. Deadman, Brussels.—From both, no doubt—at least indirectly. A warm most atmosphere I have found good, and which is not doubt improved when electrical forces, rather the forces that produce electricaly are work.

The F. HOTERMAN,—I should say both sarth solids probably all from the from air partly from the earth. If is a difficult question to answer, as the nitrogen and solid bodies very largely.

G. W. Demarke, Christianburg, Kr.—Nector is a production of the earth in the same that the sweet sap of the sugar maple thee is a production of the soil. The roots of the is a production of the soil. The roots of the sap" ascends the heat of the sun, light, duce the chemical changes that result in throwing off in the flower cups the substance called nector in the s

T. F. DUNN, RIDGEWAY—I fear this is too rich tor my blood, but here goes for a theoretical allswer. Honey as produced by flowering plants the any other product of vegetation can scarce-by be said to come from either the earth or the at estable sively. The principal ingredients in boney are crystallizable and uncrystallizable sugars, and of the elements comprising sugars with the plant gets carbon carbon and of the elements compared to the chief. Now the plant gets carbon to the chief. Now the plant gets carbon Tracing from the air by means of its leaves. Tracing this means of its leaves. the air by means or its reason of in the land element of honey to the exclusion of in the land element of honey to the exclusion of in the main element of honey to the database less abundant ones a person ein is the source berson would be led to say air is the source ton which honey is drawn, and this is true the same proportion that honey contains carton and being approximately correct the latter part of the question is easily answered. Air charged above a certain per cent with caronic acid is impure air for animal life, but not large per centage. Rain purifies the air for animal life. The plant does the same, hence tain plant life unless the carbonic acid be in tain may be said to rob the plant as tar as the carbon of the air is concerned. The inference is that if that dry warm days are conducive to honey that the interest of the sir is concerned. The interest is that dry warm days are conducive to honey that the interest on the theory. that the facts will not bear out the theory.

From both the earth and the air. A moist warm atmosphere. A het parching sun seems to remove so much of the moisture from the atmosphere, an atmosphere also prevents secretion although a cold atmosphere is not as unfavorable for thisties, and fall flowers.

In order to assist our bee-keeping friends to make a better show, we will sell the balance of tour 1 lb. screw top honey glasses at very much at once for prices, stating quantity. We will slave special quotations on smokers, honey the sand other things for exhibition purposes, specially labels, as that is one of the most important points in connection with the sale of

THE CANDIAN BEE JOURNAL.

ISSUED IST AND 15TH OF EACH MONTH.

D. A. Jones

EDITCE.

BEETON, ONTARIO, SEPTEMBER 1st, 1891.

Bees are beginning to gather fall honey again more freely.

We have a few No. 2 odd width sections on hand, principally narrow, that we will sell at \$1.00 per thousand.

Force pumps should not be neglected in the robbing season. There should be one in every bee-yard, with a pail of water in readiness.

Friend Hutchinson, of the Review, is going tomake an exhibit at the Detroit Exposition, and also at the State Fair, Michigan, we wish himsuccess.

There have been slight frosts in some localities, but not enough to injure the fall flowers, and they bid fair to produce honey liberally, if the weather is favorable.

Latest reports from Mr. F. H. Macpherson, say that he has not yet recovered. He has severed his connection with the D. A. Jones Co., and also his assistant editorship of the Journal. We hope a few months more rest will restore him to his former vigor.

We would advise our friends, when shipping honey, to never ship by express, unless it is absolutely necessary. We have just received a can from a friend, with charges \$1.50, whereas, if it had been sent by freight, it would only have been about one-third as much,

We have many enquiries about black and shiny bees. It would be well to call them old thieves, for sometimes they are not black and shiny, as we find them among Italians, as well as Black bees, only they are a little more conspicuous among the black ones, and the removal of the hair from the thorax or abdomen, gives them a black shiny appearance. The same appearance may be found among Italians, Cyprians, Syrians, or any of the yellow races, only you have to look a little closer to find them. They are simply robber bees, that have lost all the hair from their abdomens.

Dadant & Sons favor as small a brood chamber as possible to hold sufficient honey, and give bees room to cluster. This is right; the more compact the better. When honey is scattered all through the combs, and that over a large area, it takes more to winter, and the loss is much greater.

In sending out some crates the other day, a gentleman saw them on the train and ordered a trial lot of ten, sixty-pound tins of honey. This shows that it pays well to have your name and address, with a handsome label on your crates. Every sixty pound tin of honey shipped out, should have a large label on each of the four sides.

We hope our friends who live in favorable localities will not neglect to sow plenty of sweet clover seed from this on till winter. It will grow any place where there is the least bit of earth to support it, and especially in new sections of country, where large yields might be secured. We have yet on hand, a nice quantity of our last importation, and in order to encourage our friends, we will sell it at reduced rates.

We are very sorry to learn that our esteemed friend, Mr. Schultz, of Kilworthy, has been very ill for a long time. No doubt, many of our friends will wonder why his welcome articles have not appeared in the JOURNAL lately. He was unable to attend to his bees, and sold his strongest colonies in the spring. Some that he sold were in such fine condition, that they yielded to the purchaser about 300 fold. We should be pleased to be able to report Mr. Schultz's recovery at an early date.

When bees are to be moved long distances, strips of muslin should be bound over all openings to keep in the bees, but let in the air.—A. B. J.—We prefere wire cloth to muslin, as it is easily seen that there is danger of bees gnawing through the muslin and getting out. We had bees shipped us this year with muslin covering, and the loss was very heavy. Wire cloth is so strong and so cheap, that no person need run the risk. There is a thin kind of linen cheese cloth, with the threads twisted very tightly, which we would much prefer to muslin, if we did not use wire cloth.

We are prepared to exchange any of our beekeeper's supplies that we manufacture, for a quantity of good extracted honey, and we expect to pay all we can afford for the honey. In order to be able to quote price, we would like a sample of the honey forwarded us. This will be an easy way to get your supplies for next sees son, and as we have a large stock, of nearly all the goods we sell, on hand, we would be able to ship promptly. The above does not include comb foundation or honey tins, as the price on them is cut so closely, that we could hardly pay the best market price for honey, in exchange for goods that cost us about what we sell them for. However, friends, we will try to accomodate you in some way, if you will just say what you want, and what you would like us to do.

PUNGENT ODOR OF PROPOLIS.

A young bee-keeper writes to inquire why his bees "smell so;" why such a pungent odor comes from the hives. He imagines that some terrible disease, perhaps foul-brood, has at tacked the colonies. The pungent odor comes from propolis, which all bees collect to cement the hive, and make it snug for Winter. odor of propolis—a resinous substance obtained from pine, balm of gilead, and other trees-is said to possess healing qualities, to minister directly to diseased lungs. The bee-keeper who opens his hives often and takes long draughts of the odor, will be made stronger for his work and he will find that the odor of propolis quite as beneficial and a deal safer than the go called elixir of life.-Ploughman.

This item will save us answering several enquiries in reference to this

TABLE OF CONTENTS.

	,
A good season in N Y	63
A word for the C B J	. 0
Artificial heat to promote brood-rearing	. 63
Artificial heat to promote brood-rearing	63
Beeswax, its production and bees	. 69
Double slotted sections	03
How to find a queen	. 63
Fort broad sombs made safe without beiling dOWI	68
Foul brood combs made safe without boiling down. Honey bees of America	65
	67
Honey dew for wintering	200
How to prepare bees for winter New Heddon hive with one part brood chamber Not gloves but oil of wintergreen, etc	69
New Heddon hive with one part brood chamber Not gloves but oil of wintergreen, etc Preparing for next sesson	69
	Ou-
	-
Wintering Dees in Manitoba	691
Wintering bees in ManitobaYellow (?) Carniolans	

BRES

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

R have about 75,000 more sections on hand of the 2nd quality, which we will sell for \$1.25 retail. Co. Rediscounts for will be given agents. D.A.JONES

Older one year old (one queen from each breedby under one year old (one queen from each breedand to will produce bees as large, beautiful, goutle
Queen from which we purpose breeding during the
season from which we purpose breeding during the
ton tor 1892. Orders booked now and filled in rotapetition can be sent at once. G. A. DEADMAN,
Aplarist, etc., Brussels. Ont.

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

prominent manufacturers of comb foundation through-out the country. We guarantee every pound of Bees-purchased from us absolutely pure. Write for our prices, at any other manufacturers and the second of the sec prices, stating quantity wanted.

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

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70,000 Sections about 4½ x 4½ x 1½ and 4½ x 4½ x 1.3/8, at the following

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Per 1000, \$1.25, or in lots of 10,000, \$1.00.

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"BOUND TO Go."

We are selling one pound Glasses at a great reduction abecial quotations for quantities. Only about 50 gross left. Now is the time to place your order.

THE D. A. JONES CO., Limited, Beeton, Ont.

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On taken another brother into partnership with us On this account the business will be carried on under the name of Myers Bros. instead of J. & R. H. Myers. We have a few more price lists left which we will send to any one on application.

We pay 33 cents cash or 35 cents teade for Beesward delivered here.

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White Wyandottes Exclusively

MATINGS:

PEN Mo. 1 - Headed by a Towle Cock that has sired some of the highest scoring pirds in America. Mated to eight line pullets.

PEN No 2—Headed by the First Prize Cockerel at the "International," score 36. Mated to hens that have proved themselves good breeders.

In these pens are females scoring 951 and 37 points, and more just as good. Eggs, \$150 per 13. I can ship from Buffalo, N.Y., to American customers. Stock for sale after Oct. 1st.

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RIDGEWAY, ONT.



ROBERT BLOYE. TODMORDEN, ONT. WHITE WYANDOTTES

Exclusively.

Having decided to keep only White Wyandottes in futu e, I offer for sale my entire stock of

WHITE PLYMOUTH ROCKS (EMPIRE STRAIN),

Cheap. A large number of Chicks of both varieties for sale now.

EGGS IN SEASON, \$2 PHR 13.

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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

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When I say Cure I do not mean merely to stop them for a time, and then the pillepsy or Falling 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 more 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, Branch Office, is west Adelaide Street, TORONTO.

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ONT. TODMORDEN

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Four breeds of the most beautiful and useful towls known. The Wyandottes are the best all purpose find in existence. Their low rose comb and sourt blocky bodies make them especially adapted to our cold Canadian winters. No praise can be too loud fir the Wandotte Wyandotte.

PARTRIDGE COCHINS -Of this handsome bre d PARTRIDGE COCHINS—Of this handsome beed so much is known that it is needless to say anything here of them. My birds are equal to any in America. I pay particular attention to the selection of choice breeders, the result is I have a fine lot of chicks for sale now at reasonable prices. I send out no culls, the butcher gets them. Prices of chicks from \$5 per trio Nothing under that price sold to the fancy. A choice lot to select from ready for the fall fairs now.

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Any gentleman desiring to make enquiries or pur-nase birds, will not mind enclosing stamp. It is simply business and will insure a speed reply.

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EGGS, \$1.00

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

Dark Krahmas-Three yards. Mansfield and Buck-

Williams, Booth

nam strains
White Cochins—Two yards. Lovell strain
Partridge Cochins—Three Yards. Williams,
and Washington strains.
Butt Cochins—Three yards. Gold Dust strain
Black Cochins—Two Yards
Williams strain Binds Genius—Three yards Croad strain
White Plymouth Rocks—Four yards
White Wyandettes—Two yards
Silver Wyandettes...Two yards

Bilver wyandottes,... Iwoyards Barred Plymouth Rocks... Twelve yards. Drake Upham and Corbin strains
Houdans—Two yards Pinckney strain
White-Faced Hiack Spanish—Two yards McMillan and McKinstry strains

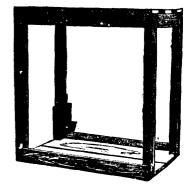
Rese-Comb Brown Leghorns...Two yards Forbes strain

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

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

I make a specialty of turnishing eggs in large quar taties for incubators at reduced rates. Send for 1890 ctlogue.

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For Exhibition and Sale Purposes.

Save money in express charges by buying light, well made coops—weigh and trying light,

We keep in stock one size only, 20 in. x 13 in. x 20 in

PRICES MADE UP.

Skeletons, only, With Canvas,

Each 30c 36.2 \$2.75 8.55 3.75 40c.

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

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

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

For shipping and exhibition coops, to hold one 100 water. Price, Each 10 95 DRINKING FOUNTAINS. \$1.40 \$5.25

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

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Brood Foundation, 50 cts. per 1b. Section Foundation, 6octs. per 1b.

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Prices to suit the Times +P. H. HAMILTON,+

A FRW pairs of Silver Laced Wyandottes and a few White Plymouth Rock cockereis for sale cheap. Brown bouth Rock, White and Blarred Plyses of any of the above varieties, or mixed, at \$1.50 per setting, or two settings or \$

WM. MOORE.

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lst and 2nd on S, C.B.Cock, These birds are forsale lst on S, C.B. Hen, 96; 1st on Blk Minorca Pullet, 91; 1st on Pekin Duck, 1st on Pekin Drake, drake for A I birds over 1 now. A 1 birds for sale now.

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(We have on hand a large quantity of 5 gallen only kegs, just the thing for cider or vinegar, at hand hives and honey tine at half price.

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IMPERIAL - PEKIN - DUCKS.

Chicks and Ducklings for sale in September. No more Duck Eggs for sale. Leghorn Eggs for balance of season, \$2.00 per setting of 13; or two settings for \$3.00, one of each it desired.

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NEW FANCIERS.

Eight Black Red Cocker-Bignt Black Red Cocker-els—grand ones, guaran-teed Bred from a Crys-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. E. F. DOTY, 47 Wellington Place, Toronto

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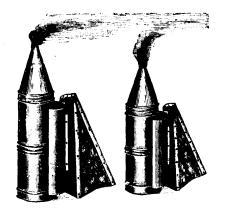
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STRATFORD ONT.

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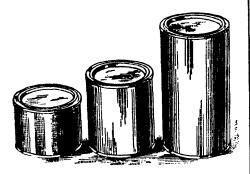
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Since cur Catalogue was issued, we have made a contract for a large number of smokers by piece work, at such figures as will enable us to reduce the prices. Here after the price of the No. 28 moker will be \$1, (former-ly \$1.25,) with goods; \$1.25 by mail,

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We now offer the "Penny Lever" Tin in three sizes These are probably the handlest tin to handle and th price is a shave lower than the "Screw top."



2 LB. 3 LB. LB. PRICES. NO. LBS. PER 1000 PER 500 PER 100 EACH \$32.00 \$60.00 \$6.75 5.25 47.50 21.00 40,00 4.25 5

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For anyone desiring to make a start in breeding poultry, or anyone wanting a good start with one breed. I have to sell my entire stock of

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on account of my intention to keep only Wyandott estimute. My Cochins are second to none. Cock so order, only time shown, and is now a magnetic frampton, only time shown, and is now a magnetic frampton, only time shown, and is now a magnetic frampton, only time shown, and is now a magnetic frampton, only time shown, and is now a magnetic frampton frampton, on the frampton frampton frampton frampton, on the frampton frampto on approval to any responsible buyer and guarantee

JOHN GRAY, TODMORDEN, ONTARIO.

The above is a good snap for some one.

Poultry Netting & Fencing,

We can now furnish the best Poultry Netting at the following low prices for 2 in, most No. 19 wire in various widths, in full roll lots (150 feet to roll):

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