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

VOL. V. No. 29

BEETON, ONT., OCT. 9 1889

WHOLE No.237

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

the same covelope. Reports from subscribers are always welcome. They assist greatly in hasking the Journal interesting. If any particular sy tem of any agement has contributed to your success, and you are willing that your neighbors should know it, tell them through the medium of the Journal Brrows. — We make them: so does everyone, and we will cheerfully correct them if you write us. Try to write us good naturedly, but if you cannot, then write to us anyway. Do not complain to any one else or left it pass. We want an early opportunity to make right any injustice we may do. may do.

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I des re to notify Canadian Bee-Keepers that I have arranged with the D. A. JONES CO., of Beeton, Ont, for the exclusive sale of their Canadian Patent on the hive of my invention, so that all desiring

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Will hereafter communicate with me. I will also receive orders for hives and have the same promptly shipped from their factory in Beeton. This hive is now, after three years' public use, the most popular hive in the world among leading honey producers, and has the most and best testimonials from such men as Langstroth, Cook, Hutchinson, Taylor, Stiles, Baldridge and many others, ever spoken or written of any bee hive. For this testimony, full discription with illustrations and prices, address

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#### NINE FRAME HIVES

Price each in lots of 1 No. 33-For extracted honey-Brood chamber, cover, 9 brood frames, second story and 9 extracting frames (same size as brood frames) made up... | 1 50 | 1 40 | 1 35 | 1 30 | 1 20 No. 34—No. 33 in flat | 1 15 | 1 10 | 1 05 | 95 No. 35—For Comb Honey—Brood chamber, cover, 9 brood frames, and two supers, suitable for Reversible Honey Board and to hold twenty-seven 41x41x11 sections, made ...... | 1 12 | 1 10 | 1 05 | 1 00 | 95 No. 36—No. 35 in flat | 87 | 88 | 80 | 75 No. 37—For comb honey — Brood chamber, No. 86-No. 85 in flat cover, 9 brood frames, and two supers suitable to take either 1 rests or skeleton crates. (1 rests take 27 41x41x11 sections; skeleton crates take 27 41x41x11 sections) specify which -made up.. | 1 12 | 1 10 | 1 05 | 1 00 No. 42-No. 41 in flat 65 62 60 | 55 No. 48-Second stories, including frames only, 60 made up.... 75 55 No. 44-No. 48 in flat 55

#### EIGHT FAME HIVES

		•						
No. 45—Same as No.	88, bt	it hol	ding	onl	v 8			
frames, made up 1 35								
No. 46-No. 45 in flat	1 00	95	_ 96		80			
No. 47—Same as No.	35. bi	at hol	ding	on	lv 8			
frames in brood char	nber, a	nd tal	cing t	wei	ntv-			
four 34x44x14 sectio	ns, ma	de up						
	95	Õe i	1 8	71	85			
No. 48-No. 47 in flat	75	70	6	5	63			
No. 49—Same as No.	37. b	ut ho	lding	on	lv 8			
' frames, made up 1 00 No. 50—No. 49 in flat	95	90	1 8	71	85			
No. 50-No. 49 in flat	75	70	6	5	63			
l No. 51—Same as No.	41, b	ut ho	lding	on				
frames, made up 75	72	70	I `67	11	65			
No. 52—Nc. 51 in flat	55	- 53	E		45			
No. 53 - Same as No.	43, b	ut ho	ding	onl	v 8-			
frames, made up 65	62	60	1 57	7 [	55			
No. 54-No. 53 in flat	45	42	40	) [	35			
BEVERSIBLE HONEY BOARDS AND REVERSERS FOR								
COMBINATION HIVE.								
The prices for these are the same for either								
eight or nine frame hiv	es.							
Price each in lots of	1	5	10	20.	50			
No. 55-Without perfor	rated							
metal, made up	2	5 24	23	22	20			
No. 56—No. 55 in flat.	2		20	19	17			
No. 57-With perf'd m	netal		• -					
made up	1. 3	0 29	27	26	25			
No. 58-No. 57 in flat.	2		- 23	22	20			
No. 59-Reversers mad	e up 1	5 14	13	12	:12			
No. 60-No. 59 in flat.	1	3 12	1,1	10	10			

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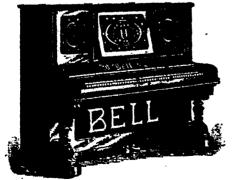
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IGHT Brahmas, cockerels and pullets brod from 1st cock at Toronto and Hamilton; P. Rocks, Gochins, Loghorus, Bik Javas, G. Polands, Langshans (inn s. Cayuza Ducks, Game and Scabright Unitary). Firsts, 8 seconds and diplor a at Kingston 13 firsts and 10 seconds at Ottawa, 9 firsts, 7 seconds and diploma at Tor nto 6 firsts, 1 second on 9 entries Barto: 10 ft sts, 8 seconds, 8 diplomas, Hamilton.

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Vol. V. No. 29

BEETON, ONT., OCT. 9 1889.

WHOLE No.237

#### SPECIAL ANNOUNCEMENT.

We have completed arrangements with the publishers of the Farm Journal, a first class agricultural monthly, published in Philadelphia, whereby we can make the following unparallelled offers:

I—To every present subscriber who will get us a new subscription, for one year at \$1.00, we will send the Farm fournal free, and the new subscriber whose name is sent will also receive it free of all charge.

2—For 30 cents, we will send the Canadian Bee Journal and Poudtry Weekly, the balance of the year (1889) and the Farm Journal right through

This splendid offer enables all ou subscribers to get for themselves an excellent agricultural paper, absolutely free of charge and we hope to see hundreds of our patrons take advantage of it. Please lose no time in attending to this matter. All subscriptions received with \$1.00, will be entered as expiring January 1st 1891, so that the new subscribers will receive each paper 15 months. Come now, and help us.

## EDITORIAL.

OME of our friends have asked whether they should buy or rent their bee farms. That of course depends on circumstances. used to be more in favor of buying than I am at the present time, It seems from the last two seasons' experiences that those wno are not bound to the one locality are likely to be more successful. Our locality here at Beeton used to be an extraordinarily good one for honey, it used to abound in golden rod, bone set, aster willow herb in fact all the fall flowers necessary to a yield of honey after the clover and basswood were over until the frost came.

Lately however it has been growing scarcer until we have been forced to move our bees to get the fall bloom and the basswood being largely cut away deprives us of the yield from that source our apiary. We think 50 colonies here now, would not have any more flowers to gather from in proportion to their number than 500 had years ago.

Where the land is largely cultivated for raising grain, and the farmers summer fallow a large area every year thus destroying the natural white clover it must necessarily make a great difference. We are more than ever convinced that where farming is conducted on the most favorable plan is not the best for bees, especially if much of the

ť,

timber has been taken away. We think the forest usually contributes more towards the honey crop, or successful bee-Reeping than it usually gets credit for. In a few years the large number of basswoods that have been planted about the roads and streets of our village will replace much of our valuable basswood timber that is being continually removed.

A full report of the bee and honey show at Detroit, will appear in next issue.

For the Canadian BEE JOURNAL.

Granulation-its Prevention.

othe question in the Canadian Bee Journal of August 14 about preventing honey granulating, only the few answers which recommended sealing the honey while hot-came any way near what I consider the secret of success: and even their method I have found by repeated disappointments to be unreliable.

Now it may be persumption for me to write, uninvited, upon this subject; but since the C. B. J's motto is "The greatest possible good to the greatest possible number" I risk criticism for breach of etiquette that I may add a little to our scanty store of apicultural knowledge.

It is all very well to liquify honey, as some answers suggested, and do it up nicely just before delivering it to the customer; but it is very annoying to find that the dealer, who admired it and gave it a prominent place when he first received it, has become disgusted with it and placed it out of sight, just because it granulated, and was, in public opinion, unfit for use; or to find that some dealer, more enterprising than his fellows, has taken the trouble to liqufy his lot; but in doing so has either scorched it or so dirtied the labels and packages that they are not fit to look at. Suppose, though, that the plan of sealing while hot were reliable (it may never fail with some-it won't work with me) it is not alwaye desirable to use packages which seal hermetically; we often want small cheap ones, and sometimes wish to keep our honey in large tins with or without gates, and which we cannot conveniently make air, tight. Honey which is sealed hot and allowed to cool slowly loses much of its flavor and much of that feeling of fullness so enjoyable in good ripe honey. For a long time I disbelieved this list statement; and when I accepted it, I supposed the injury was I

caused by the heating; but now I know that the loss takes place when the honey is cooling, and in cooling contracting, for while contracting its globules, which have become somewhat flattened and thinned by the heating, do not return to their original form, and are incapable of absorbing the flayor which they had lost in the heating, and which is free among them. This flavor escapes, and the fullness of the globules which causes (or results in) an abnormal massiness of the honey spoils (or rather will not admit oj) that delightful full feeling possessed by honey which has not granulated.

Very well then! Can granulation be prevented, and can granulated honey be liquified without injury, and kept so? I think it can. I prefer to allow it to granulate and then, as I require it for my customers, to liquify and prepare it to remain so.' I proceed as follows:-Heat honey in water bath to 2009 F., fill packages and chill hency as rapidly as possible. In winter this chilling is easily done by placing the filled packages on ice, and piling snow around and over them. In spring or fall place them in running rold water, but in summer, when the water is not cold enough, (in spring and fall, tco, with large packages) place the packages in a freezing box, and pack with ice and salt as for ice cream. As soon as the honey receives the chill, a thin artifical skin forms all around it in each package, and in a short time the honey is cold throughout. This honey will not regranulate unless air be incorporated with it; so that all that is necessary to preserve this liquid state is care that the honey is not subjected to much agitation or change of temperature.

The theory or explanation of this process is simple enough when we reason from the following already well known principles:—

1. Honey, like all liquids is made up of minute globules. 2. These globules contain the flavor; and (3) the presence of air in honey causes granulation. Together with a few discoveries which I have made on my own account viz:—(1.) That honey when heated gives off what air it contains; (2) That the flavor is lost in cooling; and (3.) that air is again absorbed after the honey is cooled enough for the globules to regain their normal vigor and form. (We all know what wonderful absorbtive power cold ripe honey possesses, and how it will absorb damp air and ferment—hence the necessity to keep it in dry places.)

Now, when honey which has had the air driven off by heating is suddenly chilled, so that an air-tight coating is formed around it, the toss of flavor is impossible, and impossible too the als rbtion of air. All hough with the escaps of air in the heating the globules have lost some of their flavor, this flavor is still present in the honey among its globules, and the sudden chill causes the globules to contract vigorously to their spherical form, and to either absorb or imprison among them what flavor is free. When the honey is cold again it cannot absorb air because of the skin which envelopes it

In time this skin dissolves into the general mass, but not until the absorbtive tendency of the honey has ceased, for a time at any rate. I will have more to say about granulation shortly.

G. B. Jones.

Toronto.

For the CANADIAN BEE JOURNAL.

Does Light injure Honey.

**▼HIS** is the caption of an article written by Mr. G.B. Jones and published in last issue of the C. B. J. I think Mr. Jones is right in discarding the theory that exposure to light hastens the chrystalization of honey. I do not pretend to explain or to fully understand the chemical process carried on in the granulation of honey but am sure that its free exposure to air hastens it. This may be verified by repeatedly pouring out honey in a small stream; by doing this honey may be made to granulate in a very short time the motion of its particles in running off may facilitate the work, but-I am sure air is a more potent element in this work than motion, and that light has nothing whatever to do with it. This may be verified by heating honey up to near the boiling point and thus expelling the air with which it is permeated. If poured into a vessel while hot and comparatively free from air and then hermetically sealed it will not granulate for years no matter to what degree of light it is exposed. This is a clear enough evidence to me that light is not a factor in the granulation of honey but that air is.

I think the explanation of the bees removing the honey from the outer comb may be found in the fact that bees like to carry on their operations in the dark and in accordance with this desire they removed the stores to comparative darkness. They worked to store it where they liked best to have it.

R. McKnight.

#### Benefits of Bee Culture.

deal of time and money is spent by the benevolent in teaching the science of bee culture. Father Langstroth used to say that if he did not make any money out of his invention, he should be satisfied if poor people who were not able to keep a cow, and have milk and butter, could learn how to keep bees, so that their 'children could have honey on their bread. Father Langstroth may yet live to see his wish verified, at least in the British Isles. This fostering of the industry may cause the product to be very cheap and cause a loss to specialists, but the society no doubt has at

heart the greatest good of the greatest number.
If our population was so thoroughly instructed
in bee-culture as they are in Great Britain,
honey would soon be as cheap as milk

BENEFITS OF BEE-CULTURE.—People who look upon bee-culture only from a pecuniary standpoint take a very narrow view. A hive of bees represents a great deal more than the honey and wax it contains, it has a good system of government, and is the only one known to the world in which the executive and officers are females. All the members of this community work together for the common good, and with a purpose. Wheever saw a bee that was gathering pollen fly off to see if a bee gathering honey was idling? No; every inmate attends strictly to her own business, not looking to the right or left. Such order, neatness, and dispatch, is not discernable in any other community.

The British Bee-keepers' Society is not only assisting people in a pecuniary peat of view but elevating them to a higher plane of thought and action; it cannot be otherwise. Bee-culture is an educator of a high power, all the senses are quickened, the eye notices plants and bloom which before were unnoticed as useless werds; the ear quickly discerns the note of a swarm, the cry of the robber, the hum of plenty, or the mourning wail of the queenless. The sense of smell tells us of the blooming of the linden, buckwheat and other flowers.

THE SEASON OF 1889 .- The past two seasons were nearly failures of the honey crop, and this season has been much better, though scarcely up to an average. It has been a great season for increase, enough honey was coming in to keep up brood-rearing. Bloom has been very abundant, while at times the sun was very hot there was a cool-breeze, and the nights at times were uncomfortably cool. The winds appear to have much to do with the secretion of nectar. I put back all swarms except the first whenever possible, and this made a deal of work I will have the rent of my hives, and in many instances 1 could not collect in any other way than by extracting the outside combs. climate bees are loath to build comb in the fall, vet if they have empty combs, will fill it with thick honey for winter stores. I have no fears but what these combs will be refilled before winter.

WOMEN - BEE-REEPERS .- Judging from correspondence, other own producers women honey Bources, are on the increase. I see in a late Gleanings that a widow had the management of one of Mr. Manum's apiaries, and that one season she produced five tons of honey in one pound sections. The next season was a poor one, and the apiary only yielded two hundred and fifty pounds of an inferior article. It was evident from this that management alone cannot produce large yields.

I have done the work in dur apiary (numbering seventy-six colonies) almost entirely alone during the busy season. Some days I hived nine swarms; only once did I call for a man's assistance. A swarm clustered in the topmost branches of a greenash tree. He put a ladder against it, and standing upon it could scarcely reach the cluster, with one of Mannm's hiving baskets he hit the cluster once and got about fifty bees in it, got stung on his hands, and thought that he was most killed. I had previously cut out the queen cells from which they issued, calculating to return them. I emptied the few bees he caught in the basket in front of the hive, saying never mind trying to get them down any more. I went into the house to rest as I did not want to see them leave; in about an hour I looked at the hive and it was full of bees; I supposed that the man got the queen, and the restreturned to their hive seeking her. The strain of bees that I have generally cluster low, but this was a virgin queen, an old one would not have been guilty of such indiscretion. Mis. L. Harrison in B.B.J.

#### The Granulation of Honey.

T is practically easy to understand how honey from one kind of flower granulates sooner than that from another source, or again, how it is that honey from one district, or in another season, shows a greater readiness to crystalize; but when one is brought face with the problem, "How is it that one bee-keeper's honey, got in the same season, in the same district, candies sooner than his neighbors?" the matter cannot be so readily dismissed.

-We must first think of nectar being simply a solution of cane sugar in water, the amount of sugar and chemical peculiarities varying, course, with the kind of plant with the wetness of the season, and also with the humidity of the air at the time of the nectar flow (electrical influence is, for the moment, beside the question). The business of the bee is to gather the nectar. remove some of the water by the help of its own system, and by the help of a salivary ferment convert the cane into grape sugar, by adding formic acid to the honey regurgitated into the cell its further fermentation is arrested, and its keeping quality well assured after still more surplus water is allowed to evaporate before the bee seals it up in the cell.

The honey is still one-fifth of it water; twofifths of the rest is dextrose, or crystallisable sugar, with iwo fifths levulose, or non-crystallizable. Extracting honey before it is all ripe will, we know, throw out some bearing an undue proportion of water in it, this having a tendency to retard the candying, but we shall throw cut nearly all the dextrose, which increaseas this tendency. If, however, one waits till all is scaled, good ripe stuff, when it is extracted a certain portion of the crystalline sugar remains in the cell, and thus gives out a greater share of levulose (non-crystalizable) sugar. Such honey naturally holds out longer in a clear, fluid state. If I had to decide between A and B in the same district. A having readily candying honey, whilst B's remained fluid, I should say B extracted from nothing but sealed comb, whilst his neighbor was not so particular. If this was not the case, my alternative would be that the bees of A had easier access to water, thus allowing the crystaline sugar to be thadier slung out of the cells. I am presuming that A keeps his honey in as warm a place as B; if not, there is really no question at issue. R. A. H. GRIMSHAW, in the Bee-Keeper's Record.

#### New Methods of Queen-Rearing.

ZINC-EXCLUDERS, ETC.

N interesting question now before our leading apiarists is, Can young queens be tertilized from a hive where there is a laying queen in the brood-chamber, the

ing queen in the brood-chamber, the queens being excluded from the brood-chamber and each other, and given seperate entrances?

This matter has been considered in the American Bee Journal, see page 26, Vol. XXV., where a negative view is taken. That view is still held. While it may occasionally occur, as in a great honey-flow, or where there is a failing queen, still it is an exception to a great law in the nature of the honey bee; and that law is, that, so long as a vigorous queen occupies the brood chamber, she reigns practically supreme as regards all rivals. But if for any cause she deserts the broad-chamber for another and remote part of the hive, and begins laying, or if she leads out a swarm, the conditions for queen rearing are essentially changed. The bees of that brood chamber will then start queen cells, and, with proper mechanism, the bee-keeper may get every one of them hatched, fertilized, and laying, all in the same hive; at the same time, the bees have access to all of the queens.

Thus we may rear and get young queens fortilized from a hive while the mother-queen isactively depositing eggs in the same hive; but it is imperative that her operations be transferred to a part of the hive remote from the brood-chamber.

In storifying a lot of brood-chambers containing combs of honey upon a colony (without excluders to prevent the queens going up). I found shortly after that she had gone up to the third story, and the bees below in the first story had started queen-cells. The queen was laying vigorously, and her attending bees were flying from the first story and the only entrance.

This liability of the queen to leave the broodnest will account for the probable fact that colonies of bees in caverns and other places in a wild state have many laying queens, although all of the bees are seen to issue from a common entrance. In no other way can we account for the large number of bees seen to fly from some of these wild colonies. In the instance above noted, of the queen deserting the broodnest, I put her back in the first story; put on an excluder, and then the seven other brood-chambers I had on this hive. The bees then balled and killed the mother-queen, and raised a queen above and below the excluder.

In two other cases, where I had put swarms containing the mother queen above the sections, the bees reared young queens below while the mother was laying above. So in this case, where the mother-queen had gone up to the third story, if I had left her there she would not have been disturbed, and there would have been two laying queens in a short time. But I have yet to record a single instance among many cases have had in the last three years, of a young queen becoming fertilized from an upper story above an excluder, where there was a laying queen in the brood-chamber.

One of the many plans of using the new queenrearing chamber is to take the old queen from
a hive and put her in an upper story, above an
excluder, or, wait till she leads a swarm, and
hive in the usual manner; then place all above
the excluder. Before the queen-cells are ready
to hatch, set the combs over the new chambers,
so that there will be one cell to each of the
compartments, and all of the young queens that
hatch will become fertilized, and begin laying
in due time.

The many and highly successful uses to which queen-excluding zinc may be put, hails the advent of great changes in our methods and fixtures. My prediction on page 88 of Gleanings, Vol. XVI., see the three closing paragraphs, will speedily come to pass, and other much needed changes with it, not the least of which will be the sacrifice of the present largely used Langstroth brood-frame for one of a smaller.

size, or one about 7 x 17 inches. The new conditions and requirements brought about will compel these changes, which are destined to place bee-keeping upon a more successful and profitable basis. It will be soon made to appear, if it is not already apparent, that bee-keeping, as a pursuit apart from other business, is not a profitable one (barring a few exceptions in favored localities), with our old methods and fixtures for handling bees. The new system with its larger returns, and financial success, will work its own way to popular favor. G. L. Tinker. New Philadelphia, in Gleanings.

To Prevent Robbing, Etc.

SEVERAL THINGS TO BE CONSIDERED IN GETTING
BEADY FOR WINIER. •

CORRESPONDENT asks if musk will

prevent robbing, if placed in a hive which is being robbed. Musk, spirits of turpentine, kerosene oil, etc., have all been recommended to stop robbing; but I do not believe that, after robbing, is well under way, any of them will do any good. When robbers first attack a hive, a few drops of kerosene oil or spirits of turpentine sprinkled against the hive and on the alighting board, a few inches from the entrance, will often cause robbers to leave in disgust. However, I find that the best way , is to contract the entrance at all times\_when robbing is likely to occur, so that but few bees can pass at a time. I have also tried leaving a pane of glass up before the entrance, as recommended by some of our English friends across the water, where robbers seem determined to enter any hive, but I do not see that it is in any way superior to contracting the entrance, while it seems to bother the bees of the hive much more. If robbers have really got possession of the hive, throw a sheet over it, so that those on the outside can not get in; and if the colony is good for any thing, they will soon drive out those already in, when the sheet is to be turned so as to get rid of them. Leave the sheet on till near sunset, when it is to be taken off so as to allow the few bees cut to get into their hives. Fix the entrance so that but one or two bees can pass at a time, and the next morning they will take care of themselves. Something much better than the sheet for stopping robbers is a bee-tent, to be set over the whole hive; and where the apiarist has such a tent, it is hardly necessary for me to tell film to use it in place of the sheet.

FREDING SUGA

.Another correspondent wishes to know how to feed his bees on sugar. There are two ways

of feeding sugar to bees, one of which is, to make the aggar into candy by kneeding a little honey in with it, till it forms a stiff dough, as it were, or it can be made into large cakes of soft candy by boiling it just right in a little water, when it is laid over the frames for winter stores. During winter, the moisture arising from the bees collects on the candy, which moistens it to such an extent that the bees can lick it up, thus giving them a supply of food. However, during a cold spell it often happens that the bees fail to cluster on the candy, and the severe cold keeps them from leaving the cluster to reach it, so that starvation occurs, which is not satisfactory to the apiarist, hence this plan of feeding is not practised, only as the bees have been neglected till cold weather prevents any other way of feeding. colony has a few pounds of honey in the hive to 'bridge" over these cold spells, this way of feeding is very satisfactory for the purpose intended. The second plan and by far the preferable one, is to make the sugar into a syrup, which is fed to bees in feeders during the warm days of September or October, so that they can store it in their comb, and cap it over the same as honey. As I have so many letters asking how I make this syrup, I think the editor will publish the matter again, even if he has already published the formula twice before.

Put 15 pounds of water in a vessel that will hold about 25 quarts, and bring the water to a boil. When boiling, slowly stir in 30 pounds of granulated sugar, so that it will dissolve, instead of settling to the bottom and burning. Now bring to a boil again, when it is to be set from the fire, and 5 pounds of good honey stirred in. This gives about 50 pounds of feed, of about the consistency of honey, the same being the best for winter feeding of any I know of.

BEES DEOWNING IN TRED.

Still another correspondent wishes to know how he can feed his bees syrup without their sticking fast and drowning in it. To obviate this a very narrow feeder must be used so that the bees can cling to the feeder on each side; or a float must be provided for the wide feeder. A feeder which is more than ; of an inch wide will always drown bees unless the float is used. One of that width and under, needs no float. for the bees are never out of the reach of one side or the other of the feeder. As the larger part of those feeding bees use any thing that they come across for this purpose, the common 1. six quart milk pan is probably more largely used than anything else. I will tell the readers how I used this successfully. To use such a

cover of depth enough to go over the pan, other. wise the bees from the outside would get at the feed and cause trouble. Set the pan on the top of the hive, and fill it with syrup. after which pull up two or three handfuls of the short grass about the hives, and scatter over the syrup for a float. Set up a piece of a section or chip against the side of the pan, so the bees can easily climb over to the feed, when a hole is to be opened to the hive below, by turning up. one corner of the quilt, or removing a slat in the honey-board, for the bees to come up through. I now scatter a few drops of the feed down through the hole and over the chip, and put on the cover, seeing that all is tight about the joints, so that no bees can get in from the outside. As these pans hold about 20 pounds of feed this once feeding is all that most colonies require.

#### UNITING BEES.

Another correspondent wishes to know how it would do to unite two weak colonies of bees for winter. This is the proper thing to do; for two weak colonies, kept separate, will consume nearly twice the stores which both would united, and very likely perish before spring, while if put together they would winter as well as any large colony. The way I would proceed in such a case would be as follows: If one of the queens is known to be feeble or inferior, she is killed so that the best one may survive, when both colonies are smoked freely, I pounding on top of the hive as I smoke them, so that the bees may fill themselves with honey, after which one is carried to the stand of the other, and both hives opened. I now select out of both hives the combs containing the most honey, setting them in one of the hives alternately, so as to mix the bees as much as possible, thus causing them not to fight, and also to mark their location anew upon their first flight afterward,. so few if any return to their former home. After the hive is filled with comb, close the same; and after putting a wide board in front of the hive, reaching from the ground to the entrance, shake the bees off the remaining frames, taking one from one hive and the next from the other, thus mixing the bees as before. Take everything, which would look like home, from the old stand, storing combs, hives, etc. away for another year and the work is done.—G. M. Doo-LITTLE in Gleanings.

used than anything else. I will tell the readers how I used this successfully. To use such a pan as a feeder, however, the hive must have a dress. Honey tastily labelled finds ready sale.

Preserving Empty Combs.

MONG the carliest works on bee-keeping that fall, into my hands was Quinby's Mysterus.... The author gave one but little hope of saving empty combs from the wax moth by enclosing them in tight receptacles. Indeed, I think the writer said he had sealed up comb in air tight vessels and yet had them infested with moth. The impression left upon my mind was that the price of spare comb was like the price of liberty, eternal vigilance. For years I sulphured my spare combs occasionally. and hung them where the air was so free about them that, except in hot weather, it could not rise in temparature to the hatching point; so that any eggs laid upon them remained inert. In 1887 I experienced a bad year and had combs remain without any swarms upon them, and as I was looking for a new location, and was expecting to break up my apiary here. I left them in empty hives, merely seeing that the entrances were well closed. Last year was a worse one; and I moved to where I had no honey house or any conveniences for bee-keeping. More bees had died during the winter and they continued to starve out during the summer of '88. The prospect was so bad on account of drouth, last spring, that I'paid little attention to my empty hives, or rather empty combs until the rains set in about the middle of May. I supposed from the little I had accidentally seen that my combs were all destroyed, but when I came to overhauling my hives, to have them ready for swarms, what was my surprise to find comb in hives, two stories high, that had been tenantless for two years, quite intact, and with the exception of some mold, ready for bees to put honey in. Fully half my combs, kept in this careless, slipshod manner were so little damaged by moth and mold that bees filled them up in a day or two after there were put upon them.

Many hives were telescopes, and for some reason that I cannot satisfactorily explain, most of the combs in these hives were wholly destroyed by moth or so moldy that bees cut them out, but in some permanently double walled hives two stories high, they were as nicely preserved as one could wish. The single walled hives did the best, though no better made or cared for than the others. Some of the telescope hives, that had the entrance in the cap only fastened up, had the half inch space about the brood chamber so full of cocoons that the hives were with difficulty gotten out of the .caps, and they present a scarred and sorry sight to-day. Of course combs from the extractor that had been put away with lioney on them were all right and ants had gotten into only one or two hives. My hives are well made, hetter. perhaps, than the average, and after careful examination I am at a loss to account for the preservation of the combs in some, and their loss in others, all equally tight. In one hive containing 20 combs, I found a colony of large black ants but no moths. Here the combs were smeared, with honey from the extractor two years before when put away. Wherever the hive had been cracked or shifted accidentally on the stand, so as to leave an opening large enough to permit the entrance of a moth, the combs were destroyed unless it was one tract contained no pollen and had not been bred in.

Lhave exposed such combs, in sections for years without having them damaged, and should not expect any trouble in keeping such : but in a large apiary there are but few such combs used in frames. I use the same above that I do below, because I find it best in the spring to transfer all drone dombs, or combs that are too largely drone ceiled, to the upper story for store comb, and most of these are either bred in before they are lifted, or the queen goes up and lays in them after they are lifted. Except there is a very late honey flow, too, most of the upper story combs are put back on the hives till time to remove supers for winter and are not covered with honey as a protection from either moth or mold till the time comes to use them again. Here, let it be noticed in passing, is an argument in favor of tiering up for extracted honey, that is of using frame of half the depth of those inthe brood chamber and as soon as one is filled. without waiting for it to be sealed, put another super, filled with half frames, underneath the first, and so on until the, season is closed, as advised by Dadant, in the revision of Langstroth. You are not only clear of brood but you can get out of a set of half frames two thirds as . much honey as you could out of a set of full ones; v u can handle them easier, and faster; they do not melt down so readily, nor the combs break i linging; while, the season being closed you put your combs away from the slinger, guarded with honey till needed again, and then, being covered with sweets they are very attractive to the bees.

Has any one tried putting empty combs away in a light trough, or box, painted with coal tar? WM. CAMM in Beekeepers Guide.

#### PRA-VINE CLOVER.

H. F. Hunn.—Can you say if Pea.vine clover is a perential? or will it last as long as the common red clover at least?

Villa Mastai, Que. Sept. 6, 89.

Will some of our readers please answer this question.

#### Toronto industrial Winners.

We republish in full the prize list of the above fair and apologise for the stupid blunders, which mixed the list so badly:

Extracted granulated honey in glass.—1st, R.

McKnight, 2nd, R. H. Smith.

Liquid extracted honey.—1st, R. McKnight, 2nd, J. Alpaugh, 3rd, Wm. Goodger, 4th, R. H.

Comb honey in sections, 500 lbs.—lst, Jacob Alpaugh, 2nd, J. L. Davidson, 3rd, R. Mc-Knight, 4th, Wm. Goodger.

Comb honey in sections, 20 lbs.—1st. J. L. Davidson, 2nd, Jacob Alpaugh, 3rd, Walter Hartman.

Extracted Liquid Linden Honey.—1st, R. McKnight, 2nd, Geo. Lang, 3rd, J. L. Davidson. Extracted liquid clover.—1st, Jacob Alpaugh,

2nd, Wm. Goodger, 3rd, R. McKnight. Beeswax.-1st, Jacob Alpaugh, 2nd, Isa

Smith, 3rd, George Lang.

Style and assortment of tins for retailing extracted.-1st, R. McKnight, 2nd, R. H Smith.

Style and assortment of glass for retailing extracted.—1st, R. H. Smith, 2d, R. McKnight.

Section super for top story and system of manipulating.—rst, J. Alpaugh, 2nd R. Mo-Knight, 3rd, George Lang.

Most practical new invention for the Apiarist. -1st prize divided evenly between J. Alpaugh and R. McKnight, 2nd, Isa Smith.

Assortment of Fruit preserved in Honey.-1st, Jacob Alpaugh, 2nd, George Lang, 3rd, Jacob Spence.

Cake or Pastry made with honey.—1st, R. McKnight, 2nd, 1sa Smith, 3rd, Jacob Alpaugh. Honey Vinegar.—1st, G. A. Deadman, 2nd, John Wilson, 3rd, R. McKnight.

Most useful Queen nursery cage. -- 1st, Jacob

Alpaugh.

Most tasty, attractive and neatly arranged exhibit of Honey.-1st, R. McKnight, 2nd, J. Alpaugh, 3rd, R. H. 8mith.

#### Winners at Hamilton.

200 lbs honey, Jacob Alpaugh, St. Thomas; Geo. Lang, Milton; Jos Barlow, Tyneside. 200 lbs. extracted basswood honey, Geo. Lang; Jacob Alpaugh. 200 lbs. clover honey, Jacob Alpaugh; Geo. Lang. 10lbs. comb honey, Jos-Barlow; Geo. Lang; Jacob Alpaugh. 10 lbs. extracted clover honey, R. L. Patterson, Lyn. den; John Cox, Tyneside; Jacob Alpaughrolbs. extracted basswood honey, G. M. Hill, Stony Creek; Wm. McCoy, Hamilton; Wm. Atkinson, Cheapside. 10 lbs. white beeswax. Jos Barlow; John Cox, J. H. Burkholder. 10 Ibs. yellow beeswax, Wm. Atkinson; Jos. Baro low; J. H. Burkholder. Bee hive, Geo. Lang; D. A. Jones, Beeton.

### SUNDRY SELECTIONS.

RNUW ON HIVES.

PETER BRENNAN .- Will bees receive any injury from being drifted over with snow in the winter, the hives being chaff packed?

Lakeside, Sept. 21st.

No. We would prefer to have the snow drift over them 10 feet deep and remain there until fine weather in the Every colony that is in proper condition when the snow drifts over it. we think is sure to winter splendidly.

#### CONVENTION NOTICES

The Lambton Bee-keepers Association will meet in the town of Forest on Monday 21st Oct. Our last convention was a failure on account of very wet weather but Bro. Bee-keepers come right along and let us have a rousing meeting. J. R, KITCHEN, Weidman.

The International Bee-Keepers Association will meet in the court-house, at Brantford, Ont. on Dec. 4, 5, and 6, 1889. All bee-keepers are invited to attend, and State and District bee-keepers societies are requested to appoint delegates to the convention. Full particulars of the meeting will be given in due time. Anyone desirous of becoming a member and receiving the last annual report bound, may do so by forwarding \$1. to the secretary .- R. F. Hol-TERMANN, Sec. Romney, Ont. Canada.

## BUSINESS DEPARTMENT.

12 CENTS PER POUND FOR EXTRACTED.

For No. 1 extracted honey, put up and ship. ped us in 60 pound tins-we will pay 12c. per lb, delivered at Beeton, payment to be made in any kind of supplies wanted at prices marked in our catalogue. This is the most we have offered for honey in a wholesale way for years.

DISCOUNTS FOR GOODS WANTED FOR NEXT SEASON.

We will allow a discount off the prices of all goods as found in our catalogue, when it is stated that they are for next season's use, to the extent of 10 per cent. This, of course will not apply to tins, labels and such goods as may yet be used this season. We have a large stock of most everything on hand, and we can thip with promptness all orders. The object in giving this discount is to encourage winter trade, and it will last only during our pleasure.

#### 60 POUND TIME AND STRONG HANDLES.

We find that our tinsmith, without our knowledge has been making the handles of these tins too light, much too slender for the weight which each one has to carry. One or two complaints reached us during the Fair at Toronto, and we have at once removed the defect. The handle as it has been put on, will lift all right if it is not wrenched or jerked, but it will not stand rough handling. We shall not likely have any more complaints from this date.

Poultrymen should note the factthat the Journ-AL issued weekly and that it visits the homes, and the advertisements catch the eye four times as often as the monthlies, at no higher scale of charges. The circulation is rapidly increasing.

# DOULTRY

W. C. G. PETER,

EDITOR.

All communications intended for publication must be sent to W.C.G. Peter, Angus. All advertisements, subscriptions and business letters to be addressed to the Publishers, Beeton.

The attention of all our readers is called to the unique and unparallelled offer which we make on page 661. Please go right to work, and see that each one of you, does your own share,our list will then be doubled. for our grand array of premiums in next issue.

#### The Benefit of Exhibitions.

OW few of those who visit the many excellent exhibitions bestow a thought on any other subject than their own personal enjoyment, unless they happen to be exhibitors, and in that case their interest (very often) only extends to the class of exhibits they are most interested in. But these grand Fall Shows have a far higher motive than that of merely affording "Brown, Jones and Robinson" a chance to exhibit their manufactures, their proficiency in arts, or classes of useful in-They are intended and produstry. mulgated for educational purposes; and they fall far short of their aim, if their object is not accomplished. They afford equal chances to all classes of making known the progress that is being made in manufacture, agriculture, art, science, and domestic economy. They do all this on such an elaborate scale, ing, and the immense amount of interthat individual effort could not approach est shown, is largely due to the means it, no matter what money might be of education in poultry matters, afford-

spent for advertising, it could not reach such a host of people in such a thoroughly practical manner. If we read a good advertisement (which is always a costly one) we are impressed to a certain extent by the excellence of the article to which it refers, but if we see the article how much deeper an impression it makes upon our minds And so these industrial exhibitions are intended to educate, and every visitor ought to attend them with a desire to be informed on the many subjects he feels interested in. None but those who have half experience in such matters can imagine the vast amount of work that falls to the share of the managers and directors of these vast. edu-Here the farmer can cative concerns. inform himself of the advance made in the manufacture of labor-saving machinery, dairy utensils etc.. he is a thousand times better informed by seeing them in operation than he would be by the most elaborate descriptive circular. In fact the information to be obtained in the machinery and manufacturing departments is so valuable to the masses that it is a shame for visitors to neglect them, for the trifling amusements with which so many beguile the time. Coming to our own especial line, what a lesson the shows teach, not only to amateurs but to the oldtimers in chicken work. But they teach such a valuable lesson, to the people generally of this once neglected industry, that we cannot estimate the results to poultry culture of even one exhibition The visitors no longer walk mechanically through the poultry houses, but there is an air of business and importance in the sight-seeing, that is very encourag. ...

ed by our many excellent exhibitions, and not least to the entire poultry press of Canada and America, which occupies a worthy and prominent position among the literature of the present day. We trust our readers will consider that the end of these Agricultural Fairs is intended to be instruction and amusement combined, in the most attractive and practical form and by taking advantage of both in a reasonable way, reap a store of knowledge, and have heaps of fun besides.

#### Detroit's Great Fair.

HE first Annual International Exhibition has proved an unqualified success, and certainly it is no more than is justly due to such efforts as have been made to bring all things in connection with it, as nearly to perfection as possible. It is very rare in the history of exhibitions that the first year finds every department and detail so complete as was the case at Detroit's great fair. The buildings are magnificent and imposing in style, and the grounds in excellent condition.

There is no doubt that this first success is but an earnest of future triumphs. And next year will afford ample proof of the opinion excited by this years success and when the knowledge of what has been accomplished is freely disseminated. The promises made by the directors have been completely fulfilled, everything in connection with this great fair was done on a princely and generous scale, and we bespeak for their second year even a greater measure of success. The grand city, and the delightful trips by water makes Detroit a most enjoyable spot to hold one of the greatest fairs that the future has in store · for us.

#### Best Breeds for Eggs.

C. MITCHEL.—Will you please let me know through the Poultry Weekly soon, if there is such a thing as a hinge for hen house doors inside as will let the door open both ways when walking against them with pails, or wheel barrow in cleaning out. Lhave put up a house fo feet long by 12 wide, all double boarded with ceilar lumber and tar paper also shingled. The foundation is drained all round with a 23 feet dijch and filled with small stone within 6 inches of top, The high side facing west forms part, of the barn yard. So I had to put the windows

done on paper but I hope to get eggs all the same as I count more on coal oil and the white wash brush. 4 windows 12 panes each 10x12 any mistakes? I could have one large window in south end yet if needed. Please give us a little more discussion on the hear for the most eggs. We can hardly sell purchise Bramba eggs at 25 cents a dozen, while we paid \$2.00 last year. (Farmers want eggs.)

Molesworth

You will do better to have one win. dow in your house at least facing south to catch the warmest and longest You will never part of the sunlight. sell your eggs round home to the best satisfacțion, try an advertisement; say a breeders card for the year. Let me acquaint you of a fact on advertising some two years ago. Mr. J. W. Bell of Banda, paid a very high price for one of the best pairs of Bronze turkeys He could not sell eggs I ever saw. from these or young stock round home for anything like the price he knew they were worth; and was getting discouraged we advised him to exhibit and to advertise; but being fellow, did not make up his mind till last year, and showed at Toronto two birds, winning with them a first and a third prize; thus encouraged he advertised, and now cannot fill orders.

Moral.—Let the public know what you have to sell by advertising. We must beg friend Bell's indulgence for this and are sure we shall get it.

Our correspondent wishes us to enlarge on the BEST BREED FOR EGGS. While we do not claim that any one is the best, there is, as every honest breeder will allow, a very great difference in the way of egg production, in the several varieties. In some breeds there is no inherent extra laying qualities; the Cochins for instance must be bred for layers by careful selection, they are not, (as a family) groat layers. In the hand of careful poultrymen the Brahma is a good layer; but if neglected developes too much fatty tissue, and thus we hear of poor layers among that majestic race. Coming down to the middle weight breeds some of which are easily disposed to lay on fat, to the destruction of their egg producing power, yet given plenty of exercise and scratching for their living, they are good egg producers the year round. in the lowest side. This is not the way it is will understand that so much depends

upon the conditions the birds are living under, as upon the breed. Our neighbor Mr. Barrett, has kept a register of his hens laying, acting upon our own plan; although we have been so pressed with business we have not kept it the last year or so. Mr. Barrett has found the S. grey Dorking, and silver laced Wyandottes nearly equal, and fancies that for the entire year the Dorkings may do as well as the Wyandottes; but at present the Wyandottes are a little ahead, and we feel inclined to bet on them keeping there. When we were keeping our own register the Wyandottes were far ahead every year for (nearly) five years we kept it, as Mr. Barrett well knows. Always! remember that in the winter when prices are highest they are the birds to depend upon for eggs and you'll never 'get left' Friend Donovan in the "Review" has also some excellent testimony as to their In the report of the Government Experimental Farm, managed by Mr. A. G. Gilbert, the record of eggs for a given time in midwinter was car ried off with flying colors by the Wyandottes, no other breed approached near With us the rose comb Leghorns are next in favor, but then our house is warm, if it were very cold the Plymouth Rocks would beat them, as they used to do before we employed any We give the Leghorns the warmest quarters too; but please understand by heat it is only on account of the size of the house we employ it because it is lofty and large and we employ but just enough heat to prevent moisture rendering the house clammy and cold, and it enables Mrs. Peter to care for the stock with more comfort. The down stair pens are eleven feet high so you may imagine the need for a trifle of heat on the below zero days. Our experience says for general use the breeds that will stand the cold of ordinary poultry quarters, and give best returns are as follows and as in order named— Wyandottes, Plymouth Rocks, Langshans, Brahmas, all these will give you good results in eggs if not alloved to get too fat to lay. Wyand: ottes, Dorkings and Langshans are not so quick to put on fat inside as P. Rocks and Brahmas; but tend more to outside flesh, so that P. Rocks and Brahmas or any other fowl liable to an l

excess of fatty tissue has to be kept sparingly, and given plenty of exercise hunting for what they do obtain, also be careful to feed such breeds the foods that have a small percentage of lat forming material. You can feed corn to Leghorns in winter with profit, but hot to Brahmas or Rocks. These are better without corn except an occasional feed on very cold days, and then let them scratch for it. P. Rocks are very hearty in appetite, and they will scratch like-like-well "blazes" is about the word, if you will only provide litter and bury their grain in it. Leghorns are naturally so active that they will consume more feed and not get fat on it, because they are of a more nervous temperament. So are all the varieties of Hamburgs; these last are very good layers, but no better than Leghorns, and their eggs not so large as Leghorn The Houdan is a splendid layer of large eggs and one of the best breeds for table use, but we never had them under our personal care, so cannot speak positively as to their egg production in winter, but we have heard excellent reports from breeders, as to their This question general laying capacity. of egg production is a difficult problem tc solve, and when any person favors one breed without sufficient opportunities with others for just comparison, the opinion formed is not very reliable. It is so very easy to affirm that "my hens laid an egg every day of the year. in fact egg stories beat fish stories altogether; it used to be a race between the angler and the poultryman, but the chicken man came out ahead, and it seems likely he will stay there. will look up a good food table so our readers may know better how to feed for eggs. We have made enquries rehinges, and find you can procure double action hinges for poultry house doors at a very reasonable price. They would need to be kept oiled to work well, as you may know the dust in poultry houses from the scratching would soon clog them, and your birds would get mixed in a moment, if you were keeping different breeds, but they would be very handy indeed because the attendant need not put down whatever he was carrying to open and shut the door.

#### Poultry Exhibit at Barrie.

HE new poultry house in the above town 6 called out many fanciers of fine stock and made the exhibit a most excellent one in all varieties. Many Toronto winners were shown and made many fresh conquests in their respective classes. Barrie has always had a good class to fill in the poultry department, and this year is above all others owing to the increased accommodation provided. Messrs. Barber & Co., of Toronto, of course carried all in their varieties, and won the Kempenfeldt Association silver cup for sweepstakes breeding pen, with a fine pen of Barred Plymouth Rocks. Mr. P Love, Barrie, was the tortunate possessor of the S C B Leghorn pen of chicks, which were awarded the silver medal offered by the same association for sweepstakes B. pen of chicks, and a fine pen they are, but ran very close with a good pen of handsome Silver Grey Dorkings belonging to Mr. Barrett, of Angus. The medal for best collection of pigeons offered by ye editor was won by the firm of Carley & Greenwood, Barrie. Though Mr Hughes would have run very close with any single exhibitor.

Dark Brahmas.—The 1st and 2nd Toronto Dark Brahmas were shown in that class and took the honors. Toronto 1st cockerel and 2nd pullet coming in again, in good class.

Light Brahma.—A grand lot as usual in Barrie and in fine shape.

Buff Cochins.—Are good but we have in our eye some of those A-1 birds seen in Toronto, and it makes us judge hard. Still we must say these are very good and better than ever seen here. The first chicks a very fine pair.

White Cochins.—A small class but good birds T Barret of Angus shows 1st chicks a very fine shape, and in perfect condition, will make up extra well we should say.

Partridge Cochins.—We have a larger class than usual and as good quality. W. Patterson, of Barrie wins 1st with a choice pair.

Dorkings.—Are extra well filled classes, and chicks very forward, Mr. Barrett, winning all in S. G, with his fine exhibit.

Games.—In Games as before noted, Barber & Co., of Toronto, have to own no rival, their exhibit is as usual of excellent quality, and the admired of all beholders. They show largely in Game Bantams with a choice collection, and ought to be satisfied with the result to judge from the reds and blues displayed on their coops.

Langshan.—This lordly bird has some fine stock to represent his noble race, T. Barrett's fine pairs winning 1st in old and young, with with W. H. Barnes a good 2nd.

S. C. W. Leghorns.—Are out in force. We

wish our London boys could see them,—a splendid exhibit, both in quality and number. Several Toronto winners were in this class and shown by Mr. Wright, of Richmond Hill. 1st pair old and young really choice specimens, 2d chicks, A. Adams, Allandale; perfect beauties, and will soon be up to 1st.

R. C. W. Leghorns.—Are a first rate class all through and look beautiful.

S. C. B. Leghorns.—Are another large and good class. Mr. Wilson of Oro takes 1st on a good pair of old birds, 1st and 2nd chicks taken by two extra pretty pairs shown by P. Love, and others good still left it the ranks.

R. C. B. Leghorns.—All good, and old birds in fine condition, chicks rich in color and good style. Mr. Wilson, of Oro, makes a very long list of his winners in Houdans, S. Hamburgs, S. and G. Polands, Plymouth Rocks etc., making quite a choice exhibit in the ornamental classes.

Barred Rocks.—A large and excellent class. Wright shows fine stock in these, winners all good,

Silver Laced Wyandottes—Are not out in large numbers this year, some part of our fanciers not showing. The general verdict of the visitors to Barrie poultry house is that it is one of the greatest attractions they have ever had at their exhibitions, indeed few would give a town of its size credit for such a fine exhibit of choice specimens as are to be seen in the poultry house at Barrie. We must not forget the beautiful White Plymouth Rocks shown by Dr. Bennett, of Barrie, winning 1st in their class.

#### PIGEONS.

Pigeons were a really excellent display about 150 birds. The largest exhibit being in Fantails, Pouters, Jacobins and Antwerps. In lacobins the blacks took the lead. 1st cock a fine one; yellows won 2nd place on a very nice pair, but just getting into moult. One pretty pair of reds could not be seen to advantage, being too near the floor, and thus in a bad light. The Fans were well shown, good classses all around, and a great credit to the boys. Among the rest we noticed some spretty black carriers, tumblers red and black barbs. Owls were a fine class, 1st and 2nd going to the Blues.

Turbits.—The best classes were the blue and silver winged, and in other classes birds of extra merit were by no means scarce. The whole exhibit is a great improvement on former years and reflects much credit on the pigeon boys of Barrie and vicinity. We will if possible get out the prize list this week, but are a little doubtful as yet. Mr. Hughes made a serious mistake by

placing his pretty exhibit of pigeous on the floor, making it impossible for them to be seen to the best advantage, they should always be raised a little. We suppose though that the lesson is already taken to heart, to be useful experience tor another time. We must say a few words in praise of the new poultry house. After a practical test we find it all that could be desired, and notwithstanding the idea that it would be too large, there were only two empty coops. We can prophesy pretty truly when it comes to friend Bothwell knowing what is wanted in fitting up a poultry exhibition room. It is simply all that we anticipated. The only thing it needs now is banking up all around; the floor is too cold.

#### The Exhibit at Detroit.

HE exhibit of poultry at Detroit was not so large as at Buffalo and confined to the exhibits of a few breeders. Principal among these were the Franklin poultry yards, Franklin, Pa. The Eureka Poultry yards, Port Huron, Mich.; Burns & Moffat, Tilsonburg. The Maple Lawn Poultry Yards, Dearborn, Mich, Tracey Bros. of Detroit; H Wallace, Woodstock and a few others.

In some classes the exhibits were extra fine, notably Games, Light Brahmas, Partridge Cochins, Brown Leghorns, Black Minorcas, Barred Rocks, Langshans and an extra good

class of fine Black Javas.

The building is a fine one for the poultry exhibit, but the plan of noting awards by numbers and classes and blue and red ribbon tied on the coop without any sign of what it is there for, is not much of an educator to the general visitor as to the excellence of the winning bird and he must be quite a fancier why by looking in casually, could place the winners. The system of management is excellent and the stock in A 1 condition after four weeks of showing, for a great many here were at Buffalo for two weeks before, and great credit is due to all the attendants for the excellent condition the stock is in.

Light Brahmas.—In this grand class Aker-

ley takes all, with a fine exhibit of his favorites.

Buff Coohins.—Were a small class, the
Eureka yards winning most of the ribbons.
Burns & Moffat showed one fine hen, good Cochins shape and large but out of condition.
Chicks fine.

White Cochins.—1st goes to Akerly the cock showing better condition notwithstanding four weeks in the show room. One grand pair chicks.

Partridge Cochins.—Are out in a very large class and of extra quality old birds in unusually good condition for the season. 1st on hens falls to a magnificent specimen belonging to B D Sarr, Marcellas Falls, N. Y. Tracey Bros. of Detroit winning 1st on cockerel and pullet with a pair that are simply superb. 2nd pullet rich in color but not so beautifully pencilled. Eureka and Maple Lawn yards also show well in hens. The whole class reflecting great credit on the exhibitors of this grand variety. No Blacks on exhibition.

Langshans.—Are a fine exhibit, the Maple Yards again to the front. 1st B. Pen a grand one. 1st cock a majestic fellow and very lustrous black, and in fine shape. All the winners earn their places well and some good ones yet left.

American Dominiques.—Are a far larger class than is usually seen of this variety. Mr. A. Clark, of Penn. taking most of the prizes with a fine exhibit. 1st cockerel should make something extra when matured. The ever popular.

Barred Plymouth Rocks.—Are a large class of great merit. Ist cock appears rather light but examination shows him to be barred to the skin with fine color. In head he is extra good when through molt will look splendid 2nd cock good color and fine shape but badly off on comb and wattles. We noticed one very handsome pullet (Hang's) outside the grand B pen shown by Eureka Poultry yards. This pen though four weeks cooped look magnificent. There is every probability that they will become the property of a Canadian fancier.

White Plymouth Rocks.—Are a fine class H. H Wallace, Woodstook, 1st on cook with a choice bird he and 2nd hen a fine pair, 2nd a massive fellow but out of condition just now. Winning chicks all good and others worth a place left, these are sure to be a popular variety since size and shape shows so much improvement since last year. A very small class.

Silver Laced Wyandottes.—The prizes are well placed but here as at Buffalo the birds are not in feather to do themselves justice; in old feather or partly in moult they took dull in color. Cooks are very good shape, broad and deep in body. 1st and 2nd hens nice shape and good size. Not so large a class here.

White Wyandottes.—Old birds in poor condition some getting into moult look shabby. Chicks a very promising lot, nice blocky shape.

especially pullets.

Black Wyandottes —Chicks show much improvement. But old birds lack decided type as

yet which we must expect.

Black Javas.—A large and good exhibit. 1st cock and hen a really magnificent pair in prime shape. 2nd good but out of condition. A fine class all through, and we may say the same of Mottled Javas.—These last are a larger class

than we usually see.

Black Spanish.—A very small exhibit and old birds out of shape just now. Prizes placed well. Chicks neat and good.

S C B Leghorns.—We have a well filled class of very pretty birds well shown by Maple and Eureka yards. J A Behn, 1st B pen chicks, a very stylish pen of well advanced birds. 2nd, cockerel and 1st pullet a beautiful pair, 2nd cockerel will make up an exceedingly rich colored bird, the pullets shown are very fine, stylish and good color, all winners well deserve their places. A worthy exhibit.

RCB Leghorns—Old birds want better combs, all cocks show coarse in this respect. Ist cockerel nice color comb and lobe, and bids fair to be something extra when matured. Pullets a well shaped pretty lot neat in comb generally. The chicks show improvement on old stock all through this class which is well filled.

S C W Leghorns.—We had in Detroit the wonder of all wonders with regard to this class, viz., not one bird to represent this dainty race,

the first time in our experience of exhibitions that they failed to find a representative. But

RCW Leghorns.—Were there with a fair class, cooks heavy in comb, 1st hen a very pretty one, solid white, and very neat in comb. Cockerels give better promise, have good neat heads and combs, 1st cockerel the best in every point and all ohioks show improvement in this class, on old birds as

Black Minorcas.—One of the largest and very best classes in the room. Old birds a grand lot. 1st B pen and 1st cook, extra good typical birds. 1st cookerel a very stylish, handsome specimen and well grown. The whole class good and disand well grown. The whole ol tinot in type. The classes for

Polish & Hamburgs.—were well filled and the exhibit good. Most of the winners at Buffalo being present and adding fresh laurels to their wreath of victory. These highly ornamental varieties attracted universal admiration, as they always do.

Houdans.—Are a large class of good birds. G S Button of Chittenango taking all prizes offered in this variety. His birds are fine, large in size and well up in quality. A very nice ex-

hibit.

Games.—John E Gill, of the Franklin Poultry yards, Franklin, Pa. make a grand exhibit in this class with birds in prime shape generally, evidencing great care in their management and filling one of the largest and best classes in the show.

In the Dorking classes we missed many of the extra fine birds shown at Buffalo and the classes are small, most of the winners in old birds not in good shape. Winning chicks well advanced especially 1st S G cockerel. Prizes well placed. all round.

The Game and Ornamental Bantams.-Were out in force and some exceedingly beautiful birds were shown. We noticed one nice pair of Black Cochins extra fine shape and solid lustrous color but to go into detail in these classes requires more time than we could give to it this year. The names of the prize winners are however a sufficient guide to the merit of the specimens in this most attractive section of the poultry exhibit.

#### TURKEYS, DUCKS AND GEESE.

Were an extra large exhibit of A 1 quality. G S Burton, Chittenago; H H Wallace, Wood-stock and the Eureka Poultry yards, Port Huron sharing the honors. After all prizes were placed there were yet left many prime specimens, the whole exhibit good. Aylesbury and Pekin ducks and Embden geese were among the best and largest classes shown. A curiosity of the exhibit is a Spanish cock shown by E Croft, Mich., having eight distinct spurs.

#### PIGEONS.

W J Oninks elegant collection of Fantails attracted crowds of admirers. The exhibit comprises Finglish, Scotch, and French Fantails. They are shown in fine style, this exhibit alon being valued at \$500.00. Besides these the exhibit is immense in all varieties and made doubly interesting to the visiting public from the fact of all varieties having their name writ-

ten plainly above them. Mr. A Samuels, of Buffalo makes an extraordinary exhibit of the choicest specimens, a complete show in itself and worth going to Detroit to see. W C F Wagner also makes a fine exhibit in show Ant zerps. Mottled German Trumpeters, Silver and Red Pied Pouters &c. Two rich blue pied winning 1st and 2nd. For all prizes won see full prize list of awards at Detroit on another page. The show of Homing pigeons was large, and un. usually interesting. Tracey Bros. exhibit of Deautiful lop eared, Angora and Himalayan Rabbits were another attractive feature, and drew crowds of admirers to their cages, And thus we come to the end of the Detroit poultry Dep. and while we de not consider the show as strictly representative of American exhibits as a whole it was a great success.

TO THE DEAF.—A person cured of Deafness and noises in the head of 23 years standing by a simple remedy, will send a description of it free to any Person who applies to NICHOLSON, 30 St. John St. Montreal

### Awards at Detroit.

© ELOW we give the list of winners at the City of the Straits, taken from the Fancier's Journal. When attending the fair we were unable to procure a correct list and have waited for the publication of the Journal knowing that the lists it gives are always to be relied upon.

Brahmas.-Light, pen 1st, 2nd; cock, 1st, hen, 1st 2nd; cockerel, 1st; pullet, 1st, 2nd, C A Ackerly, Tonawanda, N Y cock, 2nd, C A

Hammersmidt, South Buffalo.

Cochins.—Buff, pen, 1st; cock, 1st, Eureka Poultry Company, Port Huron, Mich. cock, and; hens 1st, Burns & Moffat, Tillsonburg, Ont., cocherel, 1st; pullet, 1st. Akerley, Partridge, pen, 1st, Edmund Hang, Detroit; 2nd, B D Sarr, Marcellus Falls, N. Y., cock, 1st, Hang; 2nd, Eureka Poultry Co. Hen, 1st, Sarr. Cockerel, 1st Tracy Bros., Detroit. Pullet, 1st, 2nd, Hang. White, cock, 1st; hen, 1st, Burns & Moffat.

Plymouth Rocks.—White, pen, 1st; cock, 1st; hen, 1st; cockerel, 2nd, pullet, 2nd, H H Wallace, Woodstock Cock, 2nd, G S Button, Chittenango, N. Y. Cockerel, 1st; pullet, 1st, F W Pike Detroit. Barred, pen, 1st; cockerel, 1st; pullet, 1st; Eureka Poultry Co. Pen, 2nd; cock, 1st, pullet, 2nd; cock, 2nd, Burns & Moffat.

Wyandottes, - Silver, pen, 1st; cock, 1st, hen, 1st, 2nd, Hammersmidt. White, pen, 1st, cockerel, 1st; pullet, 1st, 2nd; hen, 1st, Eureka poultry Co. Black, 1st for each pen, cock, hen,

cockerel and pullet, to Isaac Haun,

Javas.-Black, pen, 1st; cockerel 1st; pullet, 1st, 2nd, Henry Turck, Elmwood Place, O. Pen, 2nd; cock, 1st, hen, 1st, 2nd, Hammersmidt. Mottled, pen, 1st; cock, 1st; hen, 1st, 2nd, Hammersmidt. Cockerel, 1st, pullet, 1st. F W

Leghorns.—Brown, S. C. Pen, 1st; cockerel,

1st, pullet, 2nd, Eureka Poultry Company, Pen, and, cock, 1st, Hang. Cock, 2nd; John Behn, Buffalo. Hen, 2nd, Hammersmidt. R. C., pen, 1st; pullet; 2nd, Button. Pen, 2nd; cock, pen, 1st, punct, and, cockerel, 1st; pullet, 1st, 2nd; hen, 1st; 2nd, cockerel, 1st; pullet, 1st; Wallace. Cockerel, 2nd, W Rodgers. Wallace. Cockerel, 2nd, White, R C All awards to B R Knapp, Cort-

land, N. Y. Minorcas. Black, pen, 1st, 2nd: cock, 1st; hen, 1st, 2nd; cockerel, 1st 2nd; pullet, 1st, 2nd, Willard Knapp, Fabius, N Y; cock, 2nd, CR Kroosz; cockerel, 1st, E O Grosvenor.

Polish.—Golden, cock, 1st; hen, 1st; cockerel, 1st, pullet, 1st, Burns & Moffet: Bearded golden, pen, 1st; cock, 1st, hen, 1st; cockerel, st; pullet, 1st, Burns & Moffet,; cock, 2nd hen, 2nd; Z. A. Hartsuft Bearded silver, pen, 1st, hen ist; pullet ist, Burns & Moffet. White, pen, ist, Burns & Moffet. W O black cock, ist, Burns & Moffet.

Hamburgs,-Gold spangled, hen, 1st; pullet, 1st, W H Walrath. Silver spangled, cock, 1st, John Bird; 2nd, Hartsuft; hen, 1st, Eureka Poultry Company; cockerel, 1st, Burns & Moffet. Gold pencelled cock, 1st; hen, 1st; E Hamilton. Silver pencilled, cock, 1st; hen, ist, cockerel, ist; pullet, ist; Burns & Moffet; cock, 2nd, Bird. Black, pen, ist; cock ist hen, 2nd; pullet, 1st, Burns & Mosset; cock, 2nd; hen, 1st, W H Walrath.

Games-Black red, pen, 1st; cock, 1st; ben ist; pullet ist, John E Gill, Franklin, Pa. Pen and; hen. and; C. Gillam. Cock, and, Burns & Mosses: pullet, 2d, Eli Haley. Brown red, cock, 1st. hen 1st, John E. Gill. Hen 2d; pullet 21, E. Hamilton. Silver dnckwing, cock 1st; hen is cockerel, ist; pullet, 2nd, Burns & Moffet. Hen 2d; pullet 1st, Gillam, duckwing, cock, 1st; hen 1st; cockerel 1st; pullet 1st, Gill. Cock 21, Hamilton. Hen, 2d, Gillam. Red pile, pen, 1st: cock, 1st; hen, 1st; cockerel, 1st; pullet, 1st Gill. Pen, 2nd; cock, and; pullet, and, Burns & Mosfet. Hen, and, Eli Holey. White, cock, 1st, hen, 1st, J. Northup. Black, hen, 1st; pullet, 1st, Gillat Cockerel, 1st; pullet, 2nd, Hamilton. Blac Sumatra, all to Northup. Pit, all to Gillam.

Bantams -Black red, pen, 1st; cock, 1st; hen, 1st, cockerel, 1st; pullet, 1st, Gill. Cock, 2nd; hen, 2nd, Gillam. Cockerel, 2nd; pullet, 2nd, Eli Haley. Brown red, cock, 1st, hen, 1st, Gill. Red-pile, pen, 1st; cock, 1st; hen 1st: cockerel, 1st; pullet, 1st, Gill. Hen, 2†, Gillam. Cockerel 2d, Hamilton. White, cock, 1st; hen, 1st, erel 21, Hamilton. Hartsufr. Silver\_duckwing, cockerel, 1st, pullet 1st, Gill. Hen, 1st, Gillam. Golden duck-wing, all awards (five first) to Gill. Golden Sebright, cock 1st, ben 1st, Hartsuft. Sebrights, cock 1st, hen 1st. Burns & Moffet. Black rose-comb, cock 1st; hen 1st, Gill. White Rose Comb cock, Isi; hen Ist, Gill. Cochin, pen. 1st. J. F. Knox, Buffalo. Cock, 1st, Berns & Mostet. Buff Pekin, hen 1st Burns & Moll-t. Black Pekin, hen 1st., cock, 1st; pullet 1st, 2d, Knox. W. C White Polish. pullet 1st, 2d, Knox. cockerel, 1st, C. Stillman. Burmese, all awards (three 1st, one 2d) Stillman.

Dorkings .- Colored, pen, 1st; cock, 1st; hen, t t, cockerel, 1st; pullet, 1st, Tracey Brothers. Cock, 2nd, W. H. Walrath. Silver Grey, pen, net, hen, 2nd; cockerel, 1st; pullet 1st, Burns & Moffet. Pen, 2nd; cock 2d, hen 1st; pullet 2nd, Tracy Bros. White. All awards (five 1st)

Burns & Moffet.

Other Varieties.-Houdans, "all awards (five zets, three 2ds Button. Black Spanish, cock, zet; hen zet, Burns & Mosset. Dominiques, pen, cock, 1st; hen, 2nd; cockerel 1st; pullet, 1st, A. E. Clark & Co. Hen, 1st; cockerel and, Hamilton. Langshan, pen, 1st; cock, 2nd; pullet, 1st, 2d, Hang.

Turkeys.-Chicks, bronze, 1st, W. Rodger. Turkeys.—Chicks, Dronze, 1st, w. Rouges. Buff, 1st, E. Hamilton. Black, 1st, Hamilton. Ducks, Rouen, old, 1st, H. H. Wallace: 2nd, G. S. Button. Chicks, 1st, Wallace. Aylesbury, old and young, each 1st, Burns & Moffet, White and colored Muscovy, old and young, each 1st, Hartsuit. Pekin, old and young, each 1st, Wallace, 2d Burns & Mosset. Cayuga, 1st, Eureka Poultry Co.

Geese.-Embden, 1st, Button. Brown China 1st, Hartsuft. Canada, 1st, Bird. English Pheasants.—1st, Burns & Moffet

#### PIGEONS.

Pouters.—Blue, 1st, 2nd; red, 1st; silver, 2nd; Christopher Wagner, Detroit, Mich.

Barbs.—Black, 1st; white, 2nd, Wagner. Jacobins.—White, 1st, Wagner.

Dragoons.-White, 1st, Wagner.

Turbits.-Black, 1st, A. P. Mack, Rochester. N. Y.; 2d, John A. Behn, Buffalo, N. Y. Red. ist, Mack; 2nd, Behn. Blue, ist, Mack; 2nd, Behn. Yellow, ist, Mack; 2d Behn. Silver, 1st. Mack; 2nd, A. Samuels, Buffalo, N. Y.

Owls.—English, 1st, Samuels; 2nd, Wagner. Africap, 181, Samuels.

Tumblers:-Long-face, 1st, Samuels. heads, 2nd, Samuels. Parlor, 1st, 2d, Samuels.

Fantails.—Scotch, 1st, 2d, W. J. Onink, Fantais.—Scotch, 131, 23, 24, Onink. Buffalo, N. Y. White English, 1st, 2d, Onink. Booted and French silky, 1st, 2nd, Onink. Booted and crested, 1st and 2nd, Onink. Blue English, 1st, Onink; 2nd, John E. Gill, Franklin, Pa. Black English, Onink. Yellow English, 1st, Gill.

Antwerps.-Short-faced, 2nd, A. Wagner. Long-faced, 1st, 2d. A. Samuels.

#### OTHER VARIETIES.

Swallows; 2nd, magpies 2nd; priests 2nd, A. Samuels. Archangels, 1st, 2d, J. A. Behn. Solid Turbits. 1st. 2nd; priests, 1st, helnets, 1st : mooréheads, 1st ; starlings, 2d ; snips, 2d, A Samuels. German rollers, 1st, Samuels; 2d, Wagner. German trumpeters, 2d, Wagner. Oriental rollers and Dutch highflyers, W. W. Wright Buffalo. Yorkshire tiplers, 1st, J. A. Behn. Chinese diols, 1st, A. Samuels. Ice pigeons, plain and Ural, each 1st, Samuels. Swiss crescents, 1st. Silver hen checkers, 2nd, A. Samuels. Frillbacks, 1st, white barred turbits, 2nd, Samuels.

Specials.-For best pouter, Wagner, best fantails, Onin; best turbit, Mack. largest number of varieties, Samuels; largest number of entries, Samuels largest number of awards, Samuels.

There were 103 entries, 65 varieties and 249 birds in show. .

.. The Canadian Poultry Weekly is doing a good work among the northern poultry men, and is deserving of their hearty support: Hamilton's Weekely.

For the Poultry Weekly.
Ontario Poultry Association

MEETING of the Poultry Association of Ontario was heid at Toronto during the Exhibition on September 18th. J. C. Rykert, M. P. President in the chair and the following directors present. John Cole, Hamilton; Wm. Barber, Toronto; T. H. Smelt, Guelph; A. Bogue and Wm. McNeil, London; J. Lawrence, W. H. Crowie, A. Pay and R. Hammell (Secy) St. Catharines.

Messrs. Butterfield, Jarvis and Smelt were appointed judges on poultry to take the same classes as last year with the exception that Butterfield takes Leghorns and Jarvis Cochins.

The following changes in list were made. Pit Games to read Games non Standard; the word black left out before Javas and read Javas any color and Creve-cours added to the list. Cayuga ducks cut off they to compete in A O V class.

Date of show was fixed for Jan. 7th, 8th, 9th and 10th, 1890 and the closing of the entries Jan. 3rd after which no entries will be taken without an extra fee of 25c. Entry fees same as last year. Mr. A. Pay resigned as director and Wm. Chase, St. Catharines, appointed in his place.

Communication from F. Wixson requesting single classes be allowed to compete in the breeding pens was moved to be laid on table.

The silver pitcher for the largest and best collection of poultry to be put the same as last year.

A vote of thanks was tendered Industrial Exhibition Board for new poultry building.

## *<b>4QUERY \* DEPARTMENT.*

POULTRY IN LARGE FLOCKS.

J. Foot.—In connection with my bees I have concluded to try poultry. Have started with a few birds. By increasing the size of hen house can I not keep 100 or 150 fowls profitably without building runs for them but instead let them have the range of my whole place, two acres, most of it in clover. Who says hens in flocks of more than thirty don't pay? Halifax, N. S. Sept. 26, 1889.

Certainly you can keep the birds with profit if you increase the size of your house according to the requirements of the extra number of fowls, and they will do better to have the large run of the clover field. We do not remember any one saying that hens in flocks of more than thirty don't pay; we think you refer to the fact often stated by practical

poultry men that they pay better when kept in flocks of 30 or so, when in close confinement in the winter season, and we do not hesitate to say that your profits through the winter will be much larger if you divide the pens and keep your hens in smaller flocks of say 30 or 40 to each pen. You need only put a male in in breeding season.

# AGrand Trial Trip.

We want every poultry fancier or breeder in the country on our list of subscribers, and to them we make the following liberal offer:

There are none of you but either have something for "sale or exchange" or some "want," and we offer to all who send us \$1.00, subscription to the Canadian Bee Journal and Poultry Weekly for one year, a

# Pree Prial Advertisement

In the "Exchange and Mart" column of the C.B.J. & P.W. Upon receipt of One Dollar we will credit you one year ahead on our subscription list, and will insert at any time during the next six months a FIVE LINE advertisement as above, for two consecutive weeks.

Cash must accomyany the order.

If you do not need the advertisement at once we will, on receipt of your remittance, send you a coupon which will be good at any time during the continuance of this offer.

It applies to anybody and everybody who desires to take advantage of it, and who conforms to the conditions, viz,: pays one full year in advance.

Our regular price for such advertisements as this is 25c. per week, per insertion, and should you wish the advertisement longer than two weeks, it will be charged at the above rates, or five times for \$1.00.

Do not delay in taking hold of this grand opportunity.

THE D. A. JOHES CO. Ld., Beeton,

## EXCHANGE AND MART

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

#### POUL/TRY

TOB SALE—Black. Spanish cockerels, \$100 each; one pen Langsbars. (4 hens & 1 cock) \$500; three Partridge Cochin hens, \$200; Brown Leghorn cockerel \$1.50, also Antwerps, Carriers. N. & G. GUNN, Kingston, Ont.

TOR SALE, single comb Brown Leghorn chicks and four pair Black Spanish chicks, choice birds and from good layers. Per pair \$2.00. Cockerel and 3 pullets \$3 00. Will ship in light crates. Geo. A GUMMER, Colborne. Ont.

WHITE Wyindotte Cockerels bred from high scoring stock \$100,\$ 2.00 and \$3.00 each. All birds up to the Standard and pure Wyandotte blood. J. F. DUNN, Ridgeway, Ont.

200 CHICKS for sale at a great reduction during, the months of Aug., Sept. and Oct. Wyandottes chicfly, also Black and Brown Leghorns and a few of other varieties. Write for particulars and prices. W. T. T. TAPSCOTT, Brampton.

POULTRY Netting.—See our advt. in another col with prices. Also for shipping and exhibition Coops, with owner's name printed on the canyas: THE D. A. JONES CO. Ld., Beeton.

W. BARTLETT, Lambeth, Ont. breeder of high class White and Silver laced Wyendot es, will exchange a new pairs of young birds, of either variety, for extracted honey. Birds are superior layers and guaranteed satisfactory in every respect.

EGHORNS, single comb brown and white cockerels
for sale; one dollar apiece. They are from 1st
prize, high-scoring breeding pens of Wixon's stock.
None short of "perfect dandies" will be shipped you.
W. A. LANE, Wabash, Out.

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# For Exhibition And Sale Purposes.

Save money in express charges by buying light, well-made coops,—weign only 51 lbs.

We keep in stock one size, only, 20 in x 13 in. 25 in. for pairs or light trios.

#### PRICES MADE UP.

| Bach | 10 | 25 | 100 | 25 | 100 | 25 | 100 | 25 | 100 | 25 | 22,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 | 20,50 |

Skeletons, only, 2; 2.50 5.00 r8.00

Name and address printed on canvas 5c. each extra,
\$3.00 per 100

For Exhibiton purposes, where coops are not furnished by the Fair Associations, strips are supplied, which are tacked on one side of coop, at 5c 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 ship, ing and exhibition coops, to hold one pint of water: Price, each 10, 25, 1.00

The water cannot slop out or become dirty. Larger sixes made to order—ask for prices.

The D. A JONES CO., Ld.

Beeton, Ont.

#### BEES

COLONIES of Italian Boss for sale Cheap. In fine shape for winter L WADE, Augus, Onta

BOOD POUNDS of woll riperiod Extracted Honey for sale. Correspondence solicited. State price that can be given, quantity and in what shape desired. Also a few colonies of bees. THOS. STOKES, Minesing, Ont.

WANT TO SELL a fine residence with all outbuildings, and 200 colonies of Italian Boes with the fall honey or p if bought at once, with 84 acres of land in a never fa ling locality. Address, LOUIS WERNER, Edwardsville, Ills

NOR SALE-46 colonies, nearly all Italians and working applia ces in best of order and strong. Also a Farm, 18 acros choicest black leam, suitable for fruit farm; good, frame house, story and half; good outbuildings; 2 acres in chasest fruits, a grapery, c acres in grass, It acres being ploughed for fall wheat, good board fencing; 2 miles from market, just off the Stone Road, good locality for an appary. Apply to H. C. FITZGERALD, Box 206, St. Catherines.

CARNIOLAN QUEENS FOR SALE Untested of eth; 6 for \$5.00—Tested, \$150; Selected Tested \$2.50. Mismated 50c each 1. LANGSTROTH, Scaforth Unt.

SECOND hand Coundation Mill wanted, must be at least 10in., in exchange for either honey or cash. Address, E. O. YOUNG, Ham, den, P. O., Ont.

WANTED—To sell or exchange Felham & Root Foundation Mills for extracted or comb boney or offers. Mills are of latest pattern and everything complete, and I will give good bargains on them. F. W JONES, Bedford, P. Que,

WANTED—To exchange beca, queens or extracted honey for a good Fdth. Mill for making Fdn for sections, or I will pay cash for one. JAS. ARMSTRONG, Cheatside, Ont.

WANTED—Situation for 1890, by an apiarist, 5 years experience, best of references; correspondence directed. Have worked 100 colonies for comb honey two past seasons for A. E. Manum, Vermont's largest cekeeper- H W Scott, Williamstown, Vt.

35 SWARMS of It ilion bees for one hundred dollars, all got fine queens to breed from; all in Excelsior hives, with 8 Frames. This is a bargain. Who speaks first for the lot. Also one Fdn. Mill, Root, lo inch, Now for sale. R. E. SMITH, Tilbury Contro.

WANTED—By a young married man, a situation as Apiarist to take charge of an apiary in summer and make hives of do anything else in winter months. Five years experience in bee business; wages moderate, permanent situation beingthe object. Can come at once. For references with the DA Jones Co. Beeton. Apply to W J SMITH, Monticel o, Ont.

#### MISCELLANEOUS

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

NICKLE Plated Pen and Pencil Stamp—your name on this useful article for marking books, cards &c. 25c, club of five \$1.00; name on wood handle 15c; club of eight \$1.00. Ink-powder for stamps, per package, 20c, 3 for 25c No duty. GEM STAMP CO. Malackoff, Ont.

FOR SALE OR EXCHANGE.—Thoroughbred English
I mastiff and St. Bernald dogs, pedigreed; one Swiss
14 kerat gold wutch, good time I ceper; One amethyst gold
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From pedigreed stock. Price reasonable. R. A. WATSON, Beeton.



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A fine lot of high scoring chicks for sale now; offered at great reduction until Nov. 1st.

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The Renowned Autocrat Strain of Light Brahmas, Langshans, Pea-Comb Barred Plymouth Rocks, White Plymouth Rocks, W. F. Black Spanish, Silver Spangled Hamburgs, Buff Pekin Bantams and Pekin Ducks.

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Eggs \$3.00 per 13. Hamburgs \$2.00 per 13. No stock for sale until the fall.

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# Plymouth Rocks, Rose Comb, White & Brown Leghorns,

Single-Comb White Leghorns, Light Brahmas, Langshans, B. B. R. and S. D. W. Game Bantams.

My Stock is A1. Eggs in season \$3.00 per setting, two for \$5.00. Birds for sale at all times. At the late great Ontario Show, held in St. Catharines I exhibited 15 birds and obtained 13 prizes. Send for Circular.

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Read what J J PARENT, or Cha. 1000, N Y, says We out with one of your Combined Mathies last whiter yo chaft hives with 7 inct cap. 100 honey racks, 500 broad frames, 2,000 honey boxes and a great deal of other work. This winter we have double the number of beetiese, etc. tr. nake and we expect to do it all with this saw. It will do al. you say it will." Catalogue am Price List free. Address W. F. & JOHN BARNES, 544 Buby St., Rockford, Ill.

CEND your address on a postal card for samples of Dadant a foundation and specimen cages of The Hive and Honey-bee, revised by Dadant & Son, edition of Son Dadants foundation is kept for sale in Canada ty L. Gond & Co., Brantford Ontario Office Co., DADANT & SON, Hamilton Hancock Co. Illinois.

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Silver Penciled and Spangled Hamburgs, Buff Cochins, Brown China Geese, and 12 other kinds Poultry.

Prizes on Silver Pencilled Hamburgs: At Milton 1888, ist on Cockerel, let and 2nd on Pulle'. At Bowmanville, 1888, 2nd on Cockerel, let and 2nd on Pullet. At Buffale International '60, 1st on Cockerel', let and 2nd on Pullet. 1st and 2nd on Breeding Pen.

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This fitteenth thousand much enlarged and more richly illustrated than previous editions. It has been fully revised, and contains the very latest in respect to bee keeping. Price by mail \$1.50. Liberal discount to dealers and for clubs.

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