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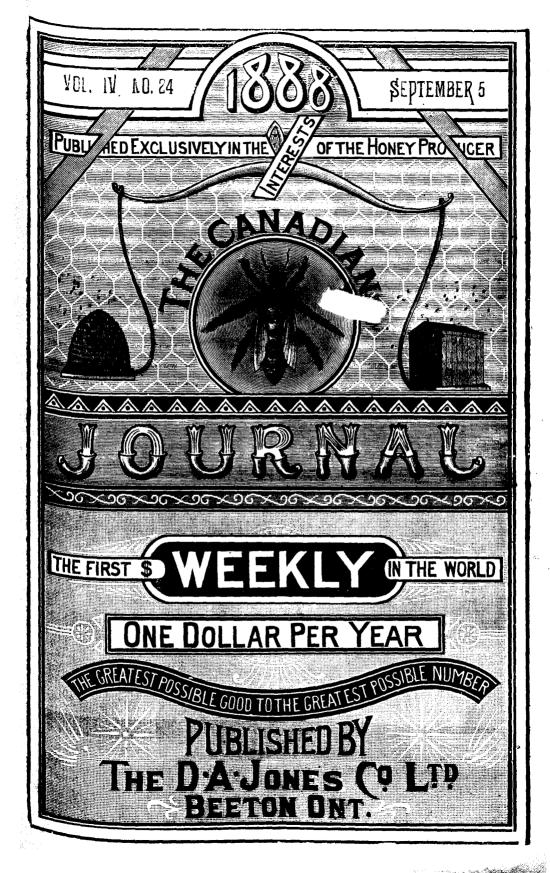
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TO CONTRIBUTORS

Communications on any subject of interest to the Bee-keeping tratemity are always welcome, and are solicited. Beginners will find our Query Department of much val-ue. All questions will be answered by thorough practi-calmen. Questions solicited. When sending in anything intended for the JOURNAL do not mix it up with a business communication. Use differ-tentsheets of paper. Both may, however be enclosed ip the same envelope.

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

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

THE BEE-KEEPERS'

For July. If you have, or expect to have, unfinished sections, read this number. If you have failed to make a success of "feeding-back," its perusal may show you where you made your mistake. The August issue will be a "Fair No." Price of the **BBYLEW** is 50 cents a year. Sample

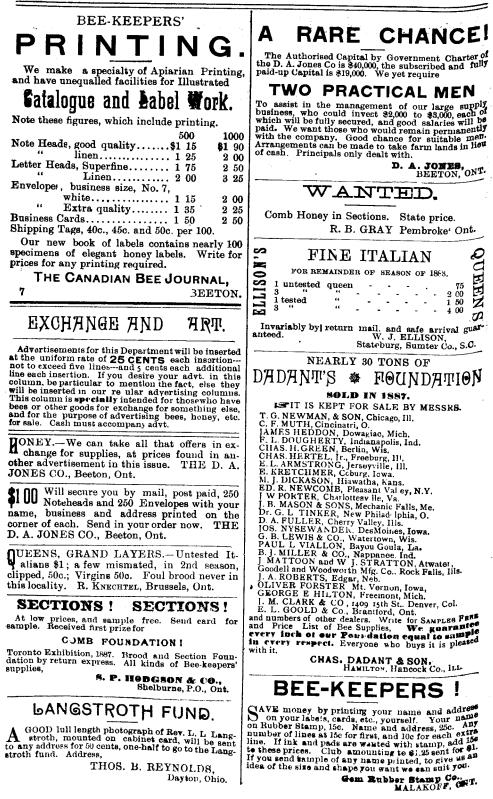
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Vol. IV. No. 24 WHOLE NO. 180 BEETON, ONT, SEPT. 5, 1888.

EDITORIAL.

CLUB of society women in London is going to start a large poultry farm near London. Bee culture is also included in the scheme.

The Bay of Quinte Bee Keepers' Association met at Belleville on the 29th. Full report at an early date. The report of honey yield is the poorest yet received.

*** The apiary of Mr. D. Auld, on Jones ave., Toronto has again been visited by a dishonest party and damage to the extent of between \$50 and \$60 done. Several hives were destroyed and serious damage done to others. A reward has been offered for such information as will lead to the conviction of the guilty ones.

The owner of some homing pigeons at Hamm bet that on a fine day twelve of his bees would beat a like number of Carrier pigeons in making the distance (one hour) between Hamm and the town of Rhynern. Twelve pigeons and twelve bees (four drones and eight Working bees, all powdered with flour) Were taken to Rhynern, and simultane-Ously set free. A white drone arrived home four seconds in advance of the first Digeon, the remaining three drones and the second pigeon arrived together, and the eight working bees preceded credit for the very good work he has

the ten pigeons by a length.-Tuesday's dailies.

We question whether the writer of the above knows a bee from a pigeonif he did he would not pen such a ridi-Bees'liberated as culous statement. stated would simply fly around, mark the location and remain there. There is no question about the rapid flight of bees, but to train them for a race of one hour would be a big undertaking. We do not doubt that on a calm day bees could travel quicker than pigeons, but in the above clipping it seems to have been a remarkably close contest when the bees only won by "a length."

We have received a copy of the revised edition of Professor Cook's "Manual of the apiary." The work has been carefully revised, and additional matter The price is slightly increased. added. The new features will be noticed in these columns next week.

We beg to direct the attention of our readers to the advt. of Thos. B. Reynolds, of Dayton, O. By reading the advt. it will be seen that one-half the proceeds from the sale of these photographs is to go toward the Langstroth fund. The photograph (cabinet size) is very good, and represents the good old man in a standing position, leaning on his cane, with a beautiful grove as a background. Mr. Reynolds is an amateur photographer, and as such deserves done. He also should receive much credit for the disinterestedness which prompts the generous ofter he is making.

OUR OWN APIARY.

ROVEN to be a perfect success, there is no better investment for the apiarist than the perforated metal division board. In our apiaries we use principally the Jones hive, with twelve frames, each with one foot of comb. Large hives, as these, are frequently found after the honey season to contain more brood than is desirable, when, as we have stated heretofore, we close the queen from a portion of the hive. She is confined on a few combs-just sufficient to keep her from becoming dissatisfied-thus allowing the workers to store in the balance of the frames and preventing Her Highness from raising a quantity of brood not then desired. At any time when it is thought expedient to limit her in this respect this plan may be adopted. Ever since we first introduced perforated metal to American apiarists we have practised it more or less. True, it was uphill work inducing many to adopt it, but its growth in popularity has made it one of the leading requisites in apiculture.

This season we find it of more importance than in any previous year. Hives in which the queen has been allowed only enough frames to carry on broodrearing sufficient to maintain the strength of the colony at the standard, have stored from twenty to sixty pounds of honey, whilst those in which she was allowed full swing have brooded so freely that they consumed their stores almost as quickly as gathered. Though our Combination hive contains but eight frames, or seven and a division board, we find the metal of equal importance in its manipulations. This hive has one-third less space for brood-rearing, but the same loss of winter stores occurs from the bees consuming an unnecessary amount of honey in fall brooding, unless the queen be confined. Although late in the season we are putting fifty colonies into this hive, giving the queen two and in some cases three frames.

The advantages of this plan are many. Instead of having the combs all partially filled with brood with a little honey at the top of each, the brood is solid in a few combs, the others with honey, and either can be removed as wished. At the bottom of the full store combs the bees clear a small space on which they cluster for winter; their stores are in a compact form and they do not have to spread or move around unnecessarily. The more compact the cluster the quieter they remain, less stores are consumed, and the bees winter better.

The next step in apiculture will perhaps be a saving of, say, 25 lbs. of honey now consumed per colony each year. If we are not to have such large flows as we have had, we must devise means to save more of the gathered nectar. This can be effected by proper manage. ment; we must calculate on the probable season, or by managing the bees according to our average seasons we are not liable to go far astray, particularly if we watch the flora carefully. The apiarist must manage as his observations direct. At a time when honey is abundant and the bees storing rapidly this care seems of minor importance for the reason that we appear satisfied with a good yield. Yet why should we not try to secure all that is possible. This question deserves more attention than it has received, and the proper use of the perforated metal queen excluding board is destined to play an important part in the answer.

FRIEND STALHAMMAR'S LETTER.

N the last number of this journal Friend Stalhammar gives his system of clamp wintering as practised by him with good results in Sweden. Similar plans have been tried in Canada and where the ground is suitable and a dry covering of sufficient thickness employed the outcome has been satisfactory. Mr. S.'s clamp is on the same principle as Mr. Bray's which has been The clamps illustrated and described. are arranged somewhat differently, but each would apparently secure about the same temperature, and we can see no reason why such a system of wintering,

with suitable soil and surroundings should not be desirable.

We agree with the writer that when bees are in a large cluster it would be difficult to secure a temperature sufficiently cold to freeze them to death. The colder it is the dryer the air, which is one of the essentials for successful wintering. Our Ontario climate-in this section at least-is not suitable for trying the McFadden plan. Farther north where there is a steady winter, unbroken by a thaw, the snow remaining on the ground from fall to spring and always dry, matters might be different. If our Swedish co-worker would make a test of the McFalden plan in his northerly · location and report the results, he would, if successful, cause quite a stir amongst the many who declare McFadden has no existence.

That bees should be found alive after spending an inclement winter in a straw skep without combs and covered with snow would indicate that something in this connection has yet to be learned. We remember attending a Canadian convention a few years ago, where a gentleman made a statement that in order to take honey from a gum he had dug a hole in the ground in the fall, shook the bees into it and covered them with earth. The next spring the earth was removed for some cause or other, allowing the warm sunshine to fall on the bees. The warmth seemed to resuscitate them, they came to life and were quite active. This would be after a confinement of five or six months without food. None of his hearers had sufficient faith to perform a similar experiment-had we done so we might not have changed our opinion. The gentleman persisted in his statement and assured the convention that it was a fact and that he was not joking as we had thought. We have known colonies to winter thoroughly well where the snow was covering them in solid drifts from ten to fifteen feet in depth. Later in the spring when the snow was shovel led off, in fact after seeding had commenced in April, a hollow was found in the snow opposite the entrance varying in diameter from seven inches to two feet. After the entrance was cleared Old Sol had to shine on those be's a long time before they awakened to

come and that their season for gathering nature's nectar was at hand. It is impossible to say how long the colonies would have remained in that condition had they been undisturbed and the snowy covering unmelted, but judging from appearances we should say for Residents in the regions of months. heavy snowfalls can try this with every assurance of success provided the hives are kept continually buried under the Perhaps if we only, knew "just snow. how" to do it we might be able to enclose our bees in air-tight jars as we do fruit and keep them pertect until they could be poured on the combs when the harvest was on. There is this difficulty however. McFadden freezes the bees, the housewife scalds the fruit; freeze the bees we cannot and scalding does not seem as though it would answer!

IRREGULAR FOUNDATION.

Much interest attaches to Mr. Stalhammar's reports of the working of the irregular celled foundation. We would ask him to send us full reports of past experiments. To such experimenters as our correspondent the entire apicultural fraternity is indebted.

Concerning his use of iron rods in lieu of the screws on the Heddon hive, his invention is practically the same as our own except that he uses iron where we use wood. Another instance of two men widely separated having the same idea.

We have sent our fyle of the Swedish Bee Journal to a friend for translation, and we shall publish Mr. Young's notes if worthy. His statement that Professor Cook, Messrs. Heddon, Hutchinson and Jones belong to a "ring" for getting money out of "other stupid bee-keepers" is too ridiculcus for comment. But what does he mean by saying "other stupid bee-keepers"? We don't object at all to belonging to a "ring," if such were possible, with such grand men as Professor Cook, Heddon and Hutchinson in it.

For the Canadian Bee Journal. A NOTE OF WARNING.

HIVE disc overed that a considerable proportion of the honey gathered in the fore part of the season, and in July during the

long time before they awakened to hives. This is a very unusual occurrence, and trealize that the glad spring time had is probably due wholly or in part to the drouth.

¢

That the nectar gathered during the very dry, hot weather is unusually dense when first gathered and deposited in the comb, I have long been aware; but I have never noticed before that such honey candied before fall in the hives. It is quite possible that under such circumstances the bees are less thorough in the capping process, deeming it unnecessary; and if so, this is another proof that they are not quite infallible in all their instincts. Be the causes what they may, the fact is of much importance to beekeepers. It is quite possible that honey candied in the comb not infrequently plays a considerable part as an unknown cause of winter mortality. I just now remember examining three or four colonies of bees a few years ago in the spring that had died in February in a neighbor's cellar, and all the honey (or very nearly all) was candied in the comb.

Now, as it is probable that the honey has candied more or less in other apiaries besides my own, especially where the drouth extended, I write this note of warning to bee-keepers to examine their hives in time so that the candied honey wherever present may be replaced by proper winter stores, and thus save mortality from this cause.

THE WEATHER AND FALL PROSPECTS.

Fortunately after the unprecedented drouth and dearth of honey this season the fall is proving fairly favorable. Within the past three or four weeks we have had splendid rains extending pretty generally throughout the parched districts, the consequence of which is that the face of nature is completely transformed from a parched red to a pleasant and splendid green, the fields of buckwheat crowned with white and diffusing a nectar aroma intoxicating to the beekeeper as well as the bees. They have been working very well on the buckwheat for a week or more, the only drawback being an occasional cool windy day and frosty night. The two frosts we have had so far, however, have done but very slight damage, the last one last night, the 27th, having been tempered and neutralized by a friendly breeze. Unless the temperature is considerably below the freezing point, we need not fear for leaf or flower if the wind keeps stirring briskly through the night. Last night its friendly services saved many a broad acre of buckwheat and corn.

The prospect now is that the bees will be able to get winter stores in plenty and possibly give us a surplus. But the hives were so literally empty after the drouth that, with brooding, they fill up slowly. Besides, the buckwheat flow which only lasts ordinarily three or four hours a day is quite different from the clover flow or

the basswood flow, which lasts ordinarily from morning till night—long days at that. The brooding is going on all right, the colonies are healthy and strong, the honey that candied' prematurely has been removed, and we hope to go into winter quarters in good shape.

ALLEN PRINGLE-Selby, Ont., August 28th, 1888.

We are inclined to think that another cause of granulation of honey in the combs is the long time it has remained uncapped. In such a summer as we have just passed through where the bees can gather but slowly they do not seem inclined to seal the cells over. We have noticed that honey standing. in the cells in this way for some time would commence to granulate. Had this season's honey been more quickly sealed the probability is that it would not have shown signs of candying so early. Frequently we have observed that honey is unusually dense in dry seasons. Clover seems to show a greater difference in this respect than basswood. This due to the position of the flowers. The linden is upside down as it were, the clover and thistle stand erect catching the dew and rain rendering their nectar thinner. Honey that has granulated hard in the combs is not advisable for winter stores. But where the granules are merely seen floating through the liquid portion we think no harm would result from its use provided a little good sugar syrup were fed with it. In the spring granulated honey can be fed. The bees will remove all the moisture dropping the sugary particles on the bottom board whence they may be gathered and melted ; or by sprinkling them with diluted syrup or slightly sweetened water the bees will consume nearly the whole.

One reason for disliking granulated honey wholly as winter stores is our belief that the heat of the bees could not possibly liquify it be the colony as strong as may be. Further, we do not think they could do it in midsummer. Friend Emigh once sent us some sections part filled with honey gathered from the fields, the balance extracted honey fed back to complete the sections. Atter keeping two years the "field" honey remained beautifully liquid. That fed back and sealed in the same sections was granulated as solid as tallow. To

see if this granulated honey would melt in the cells without the combs following suit, we placed the sections near the ceiling not far from a stove and pipe in which a fire was constantly kept. The building has ten inch walls, and walls, floor and ceiling are packed with sawdust, rendering the place absolutely frost proof in the coldest weather. Α little fire kept the temperature in the region of the sections from 90° to 110° and occasionally as high as 125° This heat was maintained for days and though the cappings would become soft and melt the honey made no offer to liquify. Testing with the knife showed no appreciable difference from its condition when first placed there. Since then we have no hopes that bees can reduce granulated honey to a liquid condition.

We think all bee-keepers will feel grateful to Mr. Pringle for his timely warning. He is a close observer and his hints are in time to counteract the difficulty.

For the Canadian Bee Journal. EXPERIMENT AND EXPERIENCE.

N a warm climate, and especially in a heated season as the present season has proven to be, it becomes a problem as to the best method of protecting spare combs from the ravages of the moth larvæ. Having reduced the number of my colonies owing to the decade of dry seasons, the past spring found me with about 500 spare combs, standard L. size. These are good straight combs mostly drawn from foundation and are reckoned as a valuable part of the apiary outfit. These combs were kept in supers during the past winter in the best of order, and they gave no trouble till the heated season set in, which began in the early part of July, and then the work of the moth miller began. The combs were brought together and such of them as showed signs of moth depredation were sublected to the fumes of sulphur and the work done thoroughly. The fumes of sulphur will destroy the larvæ of the moth miller before they are entrenched in the combs, but when a few of the larger ones become encased in their webbing it is a slow business to reach them with the fumes of sulphur. And further, the sulphur fumes do no harm to the unhatched eggs, hence the fumigation must be repeated about once a week. My experiments in this line were not satisfactory when speaking of good results. This season's

remedy is most unsatisfactory. With a small tight room or closet fitted up for the purpose, and with unflagging attention, combs can be saved in this way, but they come out in a filthy condition ready to send up a digusting sulphurous stench when subjected to a warm temperature. This matter has not been as closely investigated as it should have been. A better remedy is needed, and I have no doubt but it can be found if the genius of bee-keepers is set to work in this direction. I quit the sulphur business early in August and began to tier the combs in supers on the hives, notwithstanding the hives had the usual surplus cases on them. I found that a good colony of Italian bees will. protect all the combs that can be handily stacked over their brood nest. For want of room on the hives for so many combs, I made up a lot of nuclei-just one frame of brood with adhering bees, and gave each of them a queen cell to screw These little nuclei have up their courage. taken care of from ten to twenty L. combs each, and kept them in "band-box order," and the young queens they have nursed in the meantime have more than paid the expenses of the food consumed by the nuclei.

To see how a mere handful of Italian bees will keep a comb surface ten times greater than their immediate wants demand nicely cleaned and polished ready for future use, speaks volumes in their favor as a general utility race of bees.

YOUNG QUEENS AT MATING TIME.

It is pretty generally understood that there is a large per cent. of young queens lost at that period of their lives when they venture into the outer world in quest of a mate. But the immediate cause of this mortality at so interesting a period of their lives seems to be poorly understood even among those who are supposed to be the closest of observers. No author of our standard works on bee culture, in the old or new world, has given any feasible cause for the untimely end of so many young queens. Their counsel is to "paint the hives of different colors, keeping the hives at some distance apart, etc." Some writers advise the hanging up of something like a red cloth or a sheet of paper as a sign for the young queen to recognize her home by. All this is a plain case of the "blind leading the blind."

^{1a}rger ones become encased in their webbing it is a slow business to reach them with the fumes of sulphur. And further, the sulphur fumes do no harm to the unhatched eggs, hence the fumigation must be repeated about once a week. My experiments in this line were not satisfactory when speaking of good results. This season's experience has convinced me that the sulphur

SEPTEMBER 5

happens. I have in use a queen nursery, an invention of my own, made like a modern Langstroth hive, except that it is 18 inches wide and is partioned off into three apartments by means of wire-cloth division walls. The two side departments are strongly stocked with bees and make very strong nuclei. The middle department is used as a nursery or incubator, for hatching queen cells. The strong nuclei on either side furnishes all necessary heat. Well, as a matter of convenience, the entrances to . these nucleus apartments are both at the front. , end of the queen nursery and are practically six . inches apart. In very warm weather when both nuclei are crowding outside a portion of their bees, . the clusters may actually touch each other. These nuclei thus situated have been employed at queen rearing for the past three or four seasons, and they have nursed from four to eight queens each, during each season, and not a single loss has ever occurred. The explanation is this! These nuclei have received close attention and been kept in normal condition, and the legitimate result has been as stated above. Abnormal condition of the nursing colony is the true cause of the loss of young queens at that period of their age when they are moved to seek a mate. I discovered this fact four years ago, and have had the matter under observation ever since. Young queens may sometimes be captured by birds, etc., and may possibly under some circumstances enter the wrong hive and perish. But these causes are as a mere "drop in a bucket" when compared to the real cause, viz.: abnormality of the nursing colony. Any one may satisfy himself of the power of these influences by a very simple experiment. Give to a colony of bees, that are in normal condition every way except that they have no queen, a good strong queen cell, and they are about as certain to have a laying queen in due time as anything earthly is certain. But if you will manage so that the young queen is lost about the time she should mate, abnormality will begin to appear and the next trial will be fraught with danger, and after a few failures it becomes next to impossible to get a queen mated under the care of that colony. The condition becomes the same as that of a colony infested with fertile layers except that no eggs appear in the combs. The trouble consists in the accumulation of superannuated bees who are ready to "ball" any young queen that presumes to put on "airs" in their presence. A peculiar feature about the matter is that the young queen, from the time she is hatched out to the time she begins to prepare for her wedding flight, may move about among the bees unnoticed and unmolested, but then her persecution begins

and is most likely to end in her death. Supplying such colonies with brood and young bees, though a commencement in the right direction, will not restore the colony to her usual conditions, because the disturbing cause, the superanuated bees, remain in the hive. My remedy is to supply the nucleus or colony, as the case may be, with a frame of hatching brood and in two or three days after the young queen is hatched out move the hive to a new location, this will draw off the disturbing old bees, and the young queen will run no risk of being Persecuted and balled to death when she takes her wedding flight. Since I made the discovery that abnormality of the nursing nuclei, or colonies, as the case may be, was the direct cause of the loss of young queens at mating time, and began to take steps to remove the cause I have lost ^{BO} young queens worth making mention of, while previous to that time my loss in that way was quite serious-in fact, enough to cut down the profits of queen rearing below a paying basis.

THE PRESENT OUTLOOK.

Previous to the 15th of the present month. August, this part of the U. S. was visited by a three weeks heated spell attended with drought working serious damage to crops and to the young clover plants. But since the date above mentioned it has been remarkably seasonable and we now have promises of honey for winter stores. I am happy to say that a large portion of the young white clover crop is now safe from the effects of drought this season.

G. W. DEMAREE. Christiansburg, Ky.

Ly.

For the Canadian Bee Journal.

The Season in Dufferin County.

AVING read the reports in the C.B.J. of the honey crop in Ontario, which are by no means encouraging, and not noticing

any report from this section I thought it might not be out of place to send you a lew lines stating how we have got along with our bees this season.

I put into winter quarters in fall 1887 thirteen swarms packed in chaff, of which five died of starvation and two from some cause unknown to me, as they had plenty of sealed stores. This left six to commence the season of 1888 with. I had three swarms from these but all went back again; I divided them and made nine out of the six and took so far 335 lbs. of extracted honey.

I expect to extract yet another 100 lbs. and leave abundant stores for winter. Those of my neighbors keeping bees have done equally 25 well, and in some cases better.

One man wintered one swarm and has taken therefrom 120 lbs. of extracted honey and two warms, leaving him with three strong swarms of bees, from which, if the season keeps favorble, he expects to extract more from. Can anyone beat this ?

The prospects for fall flow are fairly good, flowers of almost all kinds are plentiful, and we the baving an occasional shower which makes things boom.

Monticello, Ont.

W. I. SMITH.

In this case we belong to the "I-toldyou-so" class, for we expected a turn of the tide after the unusually long drouth. You have undoubtedly done better than many, but you do not ascribe it to the fall flow. Crops of red clover have yielded well in some places, but from Our knowledge of your locality we judge it hard to beat for fall honey. The swamp bush and marsh lands at this season of the year afford excellent foraging ground for the workers. Let all who have reports as encouraging send them in to brighten the hopes of those who, in their despair, talk of giving up.

For the Canadian Bee Journal.

Notes from Valley Apiary, Indiana.

I have been practising the contraction of ØŢ the brood nest for new swarms for the production of comb honey this season, very nearly the same as given in Mr. Hutchinson's little book, I will try and give my experience of the same. I commenced with 19 stands of bees, 10 L frames to the hive, most of which Were good and strong and with which I expected to do a land office business, unless the flowers failed to furnish the nectar which would change the programme. During apple and raspberry bloom I put on the sections and when the clover **Came in**, which was about swarming time or the first of June, I took the crates of sections off the old and put them on the new hives. These new hives were contracted to five L frames with starters of foundation about half an inch wide with a wood and zinc queen excluder over the frames. I now took 12 of my best queens and Put one in each new hive, shook three-quarters of the bees belonging to each queen in with her, took the balance of the queens out of the rest of the old hives and put three-quarters of their bees in with the former drive. This left the old thands queenless, and in two or three days I gave them a ripe queen cell. My idea of practising artificial swarming in this way was to give them

queen cells from my best breeding queens, for I believe our honey crop depends on the queen to quite an extent. This made the new colonies quite strong, equal to about one and a half natural swarm to each hive, and I found that when the five brood frames were nearly built out the bees made preparations to swarm, that is the most of them did. I then took brood combs from the old stands enough to build them up to eight combs, giving the queens more room to lay and they nearly all soon got over the swarming fever, as it is called. As to the amount of honey up to date, we have taken off 638 one pound sections of honey, all white, from clover, basswood and button or elbow willow. This is a poor season for honey in this part of the country ---much worse than last year. Last season we managed our bees nearly the same way; commenced with seven eight frame hives, increased to sixteen and took over 700 one lb. sections. One word for the wood and zinc honey boardsthey have come to stay, I think; anyway at the Valley Apiary.

C. A. BUNCH.

La Paz, Ind., Aug. 23.

IS BEE-KEEPING PROFITABLE?

Y crop of honey raised during the season of 1887, says G. M. Doolittle in Rural Home, was most of it sent to commission merchants, as I was

not able to find a sale for it at prices which I thought it ought to sell for; hence the present time finds me with the last returns which closes out my crop. After placing the amount of the last sale on my ledger it was but natural that I should look over the debit and credit columns to see what my bees have paid me for my season's labor. After figuring up the whole receipts, and deducting the expense incurred by bees therefrom, I find I have an average profit of \$20.33 for each colony I had in the spring as cash receipts, free of all expense, except my labor. Thus it will be seen if a person can care for 100 colonies of bees (and it is done by many of our practical apiarists) this would give an income of \$2,033 a year. But to be on the safe side suppose we call it 50 colonies, thus giving a salary of \$1,016,50. The season of 1887 was no better than an average one for bees in this locality, which being a fact it would not be unreasonable to say that the above might be an average yearly income from bees for any person engaged in apiculture. As proof that the above is not over drawn, I will say that I have cleared on an average over \$1000 from my bees each year for the past 14 years, with an average of less than 50 colonies each year. Don't understand me

SEPTEMBER 5

that I have laid up that much each year, as some are bound to have it, only that I have received that as a salary, if I may so put it.

That bee-keeping will compare favorably with any other pursuit in life, I firmly believe, and the trouble why so many fail in it is that they do not properly attend to it. Men will give their horses and cattle the best of care, but when it comes to the bees, they let them take care of themselves, with the exception of hiving swarms and putting on and taking off boxes. What would they expect from their cows if treated in that way? The keeping of cows means milking twice a day for at least 210 days out of the year, and feeding them three times a day for 180 days, saying nothing about cleaning stables and other work necessary to carry on a dairy. When men are willing to thus care for bees, they will find they give as much profit as can be obtained from cows, or any other branch of rural industry. Bee-keeping means work, energetic work, a place for everything and everything in its place and to know how to do things just at the right time and in the right place, if we would make it profitable. We also want the best bees, the best hives and all modern appliances, just as our enterprising dairymen would have the best breed of cows and the best utensils to care for the milk. Also a man must have a liking for the business.

No man will ever make bee-keeping profitable who prefers to lounge about a country tavern or store instead of working in his apiary. In fact, a person will not succeed in any business unless he has enough love for his calling in life so he will be dilligent and faithful thereto. "Seest thou a man diligent in his business? he shall stand before kings," was what king Solomon told his son, and the saying is as true to-day as it ever was. If a person is not willing to spend the time on his bees which they require, he had better keep out of the business, for sooner or later he will turn from it in disgust if it is undertaken with the idea that " bees work for nothing and board themselves."

Farm and Home

SYRUP FOR WINTER STORES.

HE beekeeper often finds that in removing the surplus honey in the sections above the bees he has left the colony short of stores; or in case of late swarms very often they are found to be short, not having stored sufficient to carry them through the winter. The question arises, How can we prepare these colonies for winter, and do it safely and so cheaply that it will pay the bee-keeper ?

I have used sugar syrup more or less for win-

ter stores for the last ten years, and consider it superior to anything except the best quality of white clover honey gathered early and thorough ly ripened. It is fully equal to this when prop erly made. I would use nothing but granulated sugar. To 10 lbs. add 41 lbs. of rain water of it soft water. Place this in the vessel in which it is to be boiled, and to prevent scorching (which will not answer in the least degree) use a boiler setting a dish in the bottom. Pour in with enough to two-thirds cover the dish containing the sugar. Now dissolve one teaspoonful of cream tartar in half a cup of water and add this to the syrup with two pounds of extracted honey. Stir it until the acid and honey there are and and and store st that the sugar is all dissolved. Bring it to boil and skim off all that may rise to the of Remove the boiler of syrup from the fire us when it is cool enough not to burn the bees it is ready to feed. It will not granulate and is superior for winter stores to the average bonef gathered by the bees.

The syrup may be fed in any feeder to suit the fancy of the bee-keeper. To a good sized color that had no stores when the frost killed he flowers, I would feed 25 lbs; if they had partly enough, as is commonly the case, make an en mate, always letting the estimate be in favor ind the bees. Feed enough to make 20 lbs. of sealed stores. I use a small feeder for stimulating. first cut a hole through the quilt or honeyloard or if it be a box hive, through the top of the hive and place the feeder there. For winter feeding, use a feeder holding 25 lbs. and it covers the whole hive.

To simply remove the honey boxes or quilt and set on the feeder is well; then pour enough to put them in good condition for winter

This they will take down in 48 hours of less time.

Should the bee-keeper be so careless as and neglect the feeding until the weather is so cold that the bees will not take the feed down from the feeder the next best thing is as follows Take the frames from the side of the hive s covered with bees and lay some sticks across large tin pan and laying the comb on the sticks, Then hold a skimmer 18 inches above the comb and pour the syrup through it, letting it fall in fine streams on the comb. The force of the syrup will drive the air from the cells and fill the cells nicely. When one side is filled, turn the comb and fill the other in the will hold the syrup in, and four or five pounds of it can easily be and When filled of it can easily be put into a comb. J. B. MASON. return it to the hive.

Androscoggin Co., Me.

From an Exchange.

WHAT BEEKEEPERS WANT TO KNOW.

F bee-keepers there are two classes, the large and the small producer. The small producer wants to know how to get several hundred pounds of honey from a few old box hives, set at various angles in the meads

down by the hog pen. If he gets a few pounds of honey he wants to know how to dispose of as soon as possible and at any price. If he be a well-to-do farmer, he wants to know if it will Bay best to raise honey in the above slip-shod maner, to buy of the specialist or to go without. Also to know what a specialist finds so very interesting in a bee paper and how to keep cool in swarming time while enveloped in a coat, wool bat and thick veil with woollen stockings on his badds. He further wants to know what in the dickens that big swarm went to the woods for then himself and wife and children made all the noise possible with tin pans, dinner horns and Rung; and if there is any improvement in beemanagement since our grandfather's days.

The specialist wants to know in what locality bis bees will produce the most honey, if it will Pay 10 sow especially for honey, which is the best time to produce honey with the least manipulation and in the best marketable shape, which will pay best, comb or extracted honey, how the boney making a bow to equalize the sale of honey, making a Nore uniform price, so that it will not sell for toc, in one market and 10c. in another. He Wants to know when fools will stop rushing boney upon the market in July when there is little demand for it, the best method for wintering bees, if honey will ever become a staple atticle; why people make such an outcry against adulterated honey and not a word about chicory Coffee, and adulterated spices, syrups, etc., and when farmers will learn that bees are useful in propromoting the yield of fruit and grain.

I. H. MARTIN.

SUNDRY SELECTIONS.

SOUR BONEY.

R. WILSON. - I have 30 colonies of bees all donow, Wilson, I have 30 colonies of beck the g well, and bringing in honey very fast just now, I, and bringing in honey very fast just how, well, and bringing in honey very set to boney in have about 50 lbs. of sour extracted what can honey which I took out last spring. What can Dickenson, Ont. Aug, 28.

Add a little water to it and melt it over a little water to it and melted slow fire. When thoroughly melted skim it and boil until the water the evaporated and the honey sufficiently thick. To avoid any risk of burning it

is advisable to place the vessel containing the honey in hot water.

FAIR REPORT FROM QUEBEC.

A. O. COMIERE, M.D.-The season here will not be favorable for honey, and the harvest will Only two-thirds of my hives have be small. swarmed, and they are only beginning to work in the supers. Last week I saw a young man from St. Hugues, named Paradis, who brought out of his cellar this spring 80 hives; he has got only 27 first swarms and about 3,000 pounds of extracted honey. Last year with 50 hives which he brought out in the spring he had at the same time about 50 swarms and 4,000 lbs. of extracted honey. This year the spring here was too long and too cold-then it rained too often. If this slight report can interest you in any way, I shall be fully repaid.

St. Celestin, Que., August 8, 1888.

W. W. Howard, of Delta,, writes:-"Both queens you sent me were well received by my bees. Am well pleased with the yellow one, but the Carniolan proved to be a drone layer, all brood capped indicating drones. Shall I pinch her head or will she be of any use? Has she been mated and have I to stand the loss?"

Our answer was :--- " The queen was mated and laying before she was shipped. We presume she in some way received an injury which caused her tobe a drone layer. We will forward another immediately as we do not know where the fault lies.

MRS. G. BURROUGHS .- Our bees did not winter well; we set out 39 hives with apparently plenty of bees, but they dwindled away and eight or nine died. The combs were mouldy with a great many dead bees. I cleaned the hives but it was too late, the bees were in poor We were going to take off the bottom. health. boards but I think we will try another plan. Two years ago we bought a hive of Holy Land bees; they were late swarming but I thought they were doing well; I gave them a good deal of comb honey in the fall. When we came to set them out in the spring we had not one, they were all dead, starved to death. I was very sorry to lose them for they cost a good deal, but they were so cross I did not feel quite so bad. I. thought they were more like wasps than anything else.

Fallowfield, Aug. 28, 1888.

Sorry you lost your Syrians but frequently they will breed and consume all their stores in winter. See that all your. bees have a sufficiency of stores this fall. We feel very sanguine of the coming season and trust that your bees will be in grand condition.

Read the grand array of premiums offered onpage 475 of this issue.

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THE YIELD AT DRUMBO.

T. PASMORE.—As I was taking off my top boxes a few days back I thought I would give you the result of the season with me. It is the worst I have experienced. I have taken 14 lbs. per colony, spring count and as many full combs of honey as to put my bees in good trim for wintering. I have not allowed them to increase largely and now my hives are boiling over with bees. Are those strong hives any better or as good for wintering? I use both the Jones and the L, eight frames; when removing the top boxes I find in the Jones plenty of honey to winter on, but scarcely any in the L, not enough to keep them a month, and so full of brood that I could not put the cards of honey in without destroying the brood. How and when should I supply this lack, as I tink it should be done early in the fall so as to let the bees have time to fix up things in their own way before winter.

Drumbo, Aug. 29.

Our extra strong colonies did not winter as well on one occasion as those of medium strength but we want to go into winter quarters with strong—not too strong—colonies.

Just as soon as the bees cease gathering feed for winter. The remarks on perforated metal under "Our Own Apiary" in this number are applicable to your case.

HOW HE INTRODUCED QUEENS.

F. W. FULFORD.—The three queens I received Aug. 1st are doing splendidly. The evening I went to the P. O. I received three queens out of my box to my surprise, not expecting them. I took them home and went to work dividing a stock-which had not swarmed this season-full of bees brood and honey, drew out two frames covered with bees and plenty of brood within five days of hatching. Placed the frames in a new hive, took a third frame out from the old hive with as many bees as possible, shook them off in the new one; put the third frame back in the old hive where I got it. Filled vacant space up in the old hive with extracted frames, the balance of space in new hive with frames of unsealed comb. I placed the queen in a Peat cage upon one of the unsealed frames, and placed this next the frame of brood and closed them up. The entrance I screened with wire cloth so the bees could not get out and yet have plenty of air; kept them shut up 36 hours, liberated them just half an hour before sun set. All was right and jolly. Next day bees were at work carrying in pollen in loads. I repeated this method in introducing the other two queens, with same satisfaction : they have laid well and have lots of brood ready to hatch.

Brockville, Aug. 21..

Skill in management is the only necessary for the safe introduction of queens. The losses are slight compared with a few years ago.

W. D. DREWRY.—I notice in a JOURNAL of the Read the grand arrast the inst. a report from Campbellford for North-

umberland county, which is rather blue for this part of the country at least. I and a neighbor here had 63 colonies, spring count, increased to 88 with about 300 lbs. light section honey and they are doing well now on buckwheat. As I don't understand all about bees I would like an explanation of the following: A hive swarmed about June 10th, just eight days after the queen cells were cut out and a virgin queen from a nursery introduced. In just 14 days from that the hive swarmed again a number of queens hatching. The two that were saved, one with each hive, proved first class prolific queens.

There must have been a queen laying in the hive as all the old queen's eggs and larvæ would be so far advanced as to prohibit making queens of them. stray queen may have entered the hive. It is not uncommon to find both a young and old queen laying in one hive, the old one being old and quite feeble receives the smaller amount of attention; If the younger led out a swarm the old queen might remain in the hive, and being the only one the bees would naturally attend her, and she would perhaps be come more prolific. We have found two queens in a hive and after removing the younger the old one has increased in fertility. To test the matter more thoroughly we have introduced her to another colony to be satisfied that she was laying all the eggs. Of course each colony would start cells and com A queenless mence^e raising queens. colong on receiving her started cells the same as if eggs and brood had been put in without a queen, showing that they Such knew she was feeble and failing. queens when neglected to be fed soon pass away and are superseded.

Do bees ever store honey on top of eggs, and would the eggs in that caselay without hatch ing until exposed to the air. If so that might explain thistcase.

Smithfield.

Do not recollect bees doing this, but have known them to destroy or remove eggs and store honey in the cells. In our opinion eggs covered as you describe would not hatch.

KIND WORDS.

R. WILSON.—I would sooner go without my dinner than miss a copy of the JOURNAL. Dickenson, August 28, 1888.

Read the grand array of premiums offered on

THE CANADIAN BEE JOURNAL.

HONEY MARKET.

DETROIT HONEY MARKET.

Best new white comb, quoted at 15 and 16 cts., with little in market and few sales. The price is too low for the limited supply, and those having any to dispose of will do well to await a better demand. Beeswax now quoted at 21 & 32 cents.

M. H. HUNT.

BUSINESS DEPARTMENT.

Read the grand array of premiums offered on page 475 of this issue.

For some time past we have filled all orders for queens by return mail. We have a good supply on hand, especially of Carniolan crosses, which will be sold at 20% discount, where two or more are ordered at one time.

Read the grand array of premiums offered on page 475 of this issue.

PREMIUM LIST.

The following premiums are now offered to readers of the CANADIAN BEE JOUENAL. We have made special arrangements for the purchase of these articles, and are in a position to make the offer we do. One dollar must be sent with every name that is sent in, though they do not need to be sent all at one time, nor from one post office. The subscribers may be either new or old. If working for any of these premiums, the person so doing must advise us of the fact when they send in the first names. All articles which have to be sent by freight or express, will be sent, charges to be paid by recipient :

TWO NAMES WITH \$2-

		- 1	
One copy Heddon's Success in bee culture ""Hutchinson's <i>Review</i> , one year		50 50	i
THREE NAMES WITH \$3-			
One copy Miller's, Year among the Bees. "Automatic Fountain Pen		75 75	
FOUR NAMES WITH \$4-			
One copy Cook's Manual \$	I	25	
	I	25	
"W'kly Globe to 31st Dec. 1889.	I	00	í
	I	00	
" " Empire " " "	1	00	
Empire " " " Western Advertiser	I	00	
Witness, Montreal	I	00	İ.
u Gleanings, one year	I	00	
One American Bee Journal, one yr.	I	00	
year's subscription to any St weekly			
One Small the United States	I	00	ł
One Smoker, No. 2, plain	I	25	l
Two best Canadian Feeders made up	1	15	l
Two best Canadian Feeders, made up One Mitchell Frame Nailer	1	00	ł
Obe Mitchell Frame Nailer	I	25	I
			í

	SIX NAMES WITH \$6-	
С	ne Force Pump with Sprayer	2 00
	pair Rubber Gloves, post paidComb Carrying Bucket	2 00> 1 50∵
		1 30
	EIGHT NAMES WITH \$8— one set Anitomical Charts, with key	2 50
C	" Queen Nursery (20 cages)	2 50
	" Üncapping Arrangement	2 25.
	TEN NAMES WITH \$10-	
C	One No. 1 Wax Extractor	4 00
	"Heddon H. (made up) complete, ptd.	3 25
	TWELVE NAMES WITH \$12-	
1	ooo Sections—one piece—any size One Copying Press, Simplex	4 50 · 4 50
1	ndividual right, Heddon Hive	5 00
(The Ripening Can " Bee Tent-netting cover	4 50° 4 00°
	FIFTEEN NAMES WITH \$15-	4
	Seven Combination Hives, fitted up for	
	extracted honey, with second story	6 30
(One Extractor-any size frame-old	
	style gearing One Lawn Mower, best make, 12 in	7 00. 6 50
	EIGHTEEN NAMES WITH \$18-	•
	One Farmers' Union or Family Scale,	
	$\frac{1}{2}$ oz. to 240 lbs	8 00
	One Extractor —best made—to take any size frame	8 00
	TWENTY NAMES WITH \$20-	
l	10 Combination Hives, for comb honey.	9 00
	10 S. W. Jones Hives and Frames	9 00 8 30
	TWENTY-FIVE NAMES \$25	
	One Union or Family Scale, 240 lbs.	
	with tin scoop	10 45
	THIRTY NAMES WITH \$30	70.00
l	3000 Sections-one piece-any size	13 00
l	THIRTY FIVE NAMES WITH \$35	
	Two Colonies Bees with good queens	10 00
ł	FORTY NAMES WITH \$40-	20 00
	5000 Sections—one piece—any size One Portable Platform (19 x 14) Scale,	20 00
	500 lbs. with wheels	18 00
1	FIFTY NAMES WITH \$50-	
	Three Colonies Bees, good queens	24 00
	SIXTY NAMES WITH \$60-	. •
	One Farmers' Platform Scale, with wheels 1,200 lbs., steel bearings	26 00
	SEVENTY-FIVE NAMES WITH	
	50 Combination Hives, for comb honey	
	ONE HUNDRED NAMES WITH \$	
	50 Langstroth Hives	37 50
	ONE HUNDRED AND FIFTY N	AMES
,	WITH \$150	
)	One Combined Barnes' Foot Power Machine	60 00
1	TWO HUNDRED NAMES WITH	
)	10 Colonies Bees in Combination Hives	
5	with good laying queens	80 00
, ,	THE D. A. JONES CO.,	LD.

BEETON, ONT.

SEPTAMBER 5

PRICES CURRENT

BEESWAY

Beeton Sept. 5 1888, We pay 33c in trade for good pure Beeswax, deliver-ed at Beeton, at this date, sediment, (if any), deduct-ed. American customers must remember that there is a duty of 25 per cent. on Wax coming into Canada.

FOUNDATION

....48c

Section Foundation cut to fish and distances for some section foundation starters, being wide enough for Frames but only three to ten inches deep ... 480

BEES BY THE POUND!

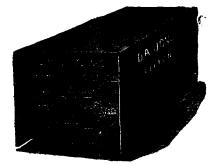
We have quite a large lot of Bees which we will dispose of by the pound, at very low rates, as follows :

6 lb Bees and 6 good mated Queens, \$10.00 " " IO ". .. ro 15.00 This forms a good opportunity to build up weak colonies or to repopulate spare combs.

Orders booked and filled in rotation.

THE D. A. JONES CO., LD t.f. BEETON.

FEEDERS.



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

THE D. H. JONES CO., LD. BEETON. ONT.

1-LB. GLASS JARS

SCREW TOP.



We are just advised of ship ment from the factory of the first instalment of 50 gross of the above. They are put the in barrels and hogsheads, the latter for our own local use, and to and to save breaking the when shipping, we append be low a table, of the qualities of which the which the shipment consists together with the prices per

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

		100%
No. of Barrels.	No. of Doz.	Prices.
1	81	1 \$ 6 25
ī	8	6 40
4	91	6 70
5	91	6 99
4	94	7 15
3	9 2 10	7 35
3	10 1	7 55
2	101	7 10
1	111	840
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d, The D. A. Jones Co., BEETON, ONT.

ADVANCE IN NAIL

Owing to a rise in the prices of nails, we will forced to advance our prices somewhat, as will be seen by the following " be seen by the following list. All orders will be filled only at these arises filled only at these prices.

•	•		
	PRICES O	F WIRE	NAILS.
Length of Nails.	No. in Pound	Size Wire	Price of I Pound
₹ ² & 1/2 inch	7200	21	22
§ inch	5000	20	17
$\frac{1}{5}$ inch	3880	10	17
1 inch	2069	18	12
11 inch	1247	17	II
11 inch	761	16	10
2 inch	350	14	9
21 inch	214	13	9
3 ioch	137	12	8

PRICES OF BOX OR HIVE NAILS.

1888

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USEFUL GOODS.

Additions are constantly being made. We buy in very large quantities, and are therefore able to **Quote** rock bottom prices. There is always something in these lines you want and they can be **article**, except those excluded from the mail.

5 0000 000000	Postage.	Per 10 Per 25
Postage, 5 CENT ARTICLES.	-	lots. lots.
Awls, brad, three assorted with-	Due bills, 100 ill book with buc	ιb 85 1 80
Blotting	2 Envelopes, 3 packages, whit	
^{couling} paper, 10 sheets note	good, business 2 Files, 3 cornered, 5 inch	
8 Bag for	3 Lead pencils, 1 doz. plain ceda	
³ Bag for school books	Fabers 581	
-odilid, for paint, passe	2 Lead pencils 3 red and blue	
	2 Note heads, pads of 100 sheets	
8 Crayons, colored drawing 45 1 10	Paint brush, No. 7	
(Tason	2 Pocket note book, 3x5 in., 1	
J Letter combined ink and pencil 45 Letter openers, nickle plated,	pages, stiff cover with bar	
1 Very handy	grand value	
~ OOKS. 32 Dages. SLIII	1 Rubber bands, five, large 1 Ruler, brass edged, flat, har	
Note porter	wood, bevelled, graduat	ed
¹ Paper, Louire, extra dual-	to i inch	
² Pad loo rplain 40 80	4 School bag, medium size	90 2 10
² Pad 100 sheets scribbling paper 45 Pass books 3 "Bailroad" 16 n.	Tacks, cut, 3 packages, 4 oz	90
l na contraint du lo pi		
	13 CENT ARTIC	LLS.
Penholders 2, cherry, swell 40 Ruler, hardwood flat graduat-	2 Belt punches, Nos. 2, 3, 4, and	15 1 25 \$3 00
Ruler, hardwood, flat, graduat-	File, 6 inches long, flat	., 1 25 2 90
Raler for the seven led	" 5 " " round Shce knives, 4 inch blade	
THE SCHOOL CHILdren Three	Blice knives, 4 men blade	ae 1 20 2 10
OCPILL, """""""""""""""""""""""""""""""""""	15 CENT ARTIC	LES.
Tacks books, 200 pages 40 90	Chisel, firmer, $\frac{1}{4}$ and $\frac{3}{4}$ in	
	12 Dextrine, ½ lb. pkge. for pasti	ng
	Glue, 1 lb. ordinary	1 30
Butter stamps 3 or 4 inches\$ 75 \$1 75 File, 3 corner 3 or 4 phase 75 1 75	Hammer, iron, adze eye	
File, 3 corner, 3 or 4 inches\$ 75 \$1 75 Ink-well, also sefety cannot	3 Lead pencils, 1 doz., good qu ity, Faber's 971	
, , , , , , , , , , , , , , , , , , ,	5 Note paper, 5 quires, 3 lb	13
	extra value	1 40 3 35
Uil care, good sized bottle 10	Paint brush, No. 5	••
	6 Rubber bands in gross box	
402. Load Pancila No. 852	For queen nursery	
Time books to	4 Rule, 2 foot, a splendid line.	
Time books for week or month. 75	Screw driver, 5 inch, round 1)it,
	hardwood handle 2 Statement heads in pads of 1	
Bill tyles, harpshape		
² Book of 50 blank receipts with ² Book of 50 blank receipts with ² Book of 50 blank receipts with	12 Papeterie, 24 sheets fine n	
2 Book of 50 blank notes		1 40 5 35
Brush, flat, for paint, paste or Varnish	19 CENT ADTIC	NEC
		1 65 4 00
Chisel, firmer i jund	Glue, LePage's liquid, with br Oilers, automatie	
Chisel, firmer 1 inch	·	

SEPTEMBER 5

20 CENT ARTICLES.

Post	age.		10		
	Bit, best make, 3, 7/16, 1, 9/16.	. 1	90	4	50
	Brass traps. Brushes, flat, 2nd quality, 11 in	. 1	85	4	50
11 x	paste or varnish	. 1	80	4	25
	Child, firmer, inch Ebony culer, bevelled for book		90		
	keej er	. 1	90	4	50
	File, 8 inch, flat, round or a corner		90		
	Glue, 1 lb. light, broken	. 1	75		
3	Lead pencils, 1 doz. 201 goed value, rubber tipped	1			
	Paint brush, No. 3	•			
12	Papeterie, "Jubilee" containing 24 sheets, ivory notes, 2				
	square envelopes	. 1	80		
6	Pens, gross box "292 school"	. 1	80		
1	Pocket memo book, indexed				
	Screw-driver, steel, 6 inch rd bi				
	Square, iron, grad. to $\frac{1}{2}$ one sid Thermometer		90		

25 CENT ARTICLES.

6	Cards, 50, ladies' or gents' visit-				
-	ing. Piries' super ivory	2	00	4	50
2	Duplicate order books, with				
	black leaf	2	00	4	50
	File, 10 inch, flat	2	25		
8	Lead pencils, 1 doz. Faber's H,				
	H. B., B. or B. B	2	30		
	Paint brush No 1				
	Rule, 2 foot, boxwood	2	30		
	Tape Lines, "Universal," 3 ft				
	*				

30 CENT ARTICLES.

6 90
6_00
-

35 CENT ARTICLES.

Bit, best make, inch	3	40	8 1
Hammer, steel face, for light			
work	3	30	
Square, grad. to 1/16 both sides	3	30	

40 CENT ARTICLES.

Foolscap, 5 quires, good quality Hammer, No. 50, steel head,		
adze eye	3	60
Pens, gross box, 'Bank of Eng.'	3	80
" " Blackstone or T	3	80
Ruler, 2 foot, boxwood, brass		
bound	3	6 0

50 CENT ARTICLES.

	Postage. Per 10 lots.	Par 95. lots.
25 8.	Ledger '' '' '' 4 25 Minute '' '' ' 4 25	
50 50	Complete set, Cash, Day and Ledger, \$1.25	
25	200 page Day Book, canvas cover	18 00
50	good paper, exceptionally low Carpenter's brace, pat. grip, 8 in 4 85 Envelopes, good, business size, 250 in box	12
	250 in box 4 00 250 Envelopes, Ladies' square, very goods	•
	Hand saws, 18 and 20 in., best make	
	Hammer, No. 51, steel head, adze eye 4 50 Hammer, smaller, frame nail'g 4 50	
	SUNDRIES.	Each
	Automatic Fountain Pen, the finest thing out; holds enough ink to last a week; always ready; can use any style of pen that suits you, and can	
	change it as often as you wish—a marvel of cheapness—by mail, post	75
50	paid, each Barnes' Foot Power Machinery—We	
50	are agents for these in Canada, and can furnish	
	the Combined Machine delivered in Toronto, freight and duty paid	60 ⁰⁰
	for We will gladly forward descriptive Catalogue & price list on application.	
	Conving press, "The Simplex," 1 @	
90 90	most rapid and the easiest handled. Folds like a book and weighs but 10 lbs. With lock, \$5, without	\$4 ⁵⁰
	Hammer, No. 47, steel head, adze eye a most substantial implement	60 55
00	Hand saw, 26 inch, finest quality Hatchet, steel, with hammer and nail	65
	puller Lawn Mowers-The new Philadel- phia pattern, as made by the	
20	Gowdy Mfg. Co., Guelph, at prices as follows :	5 75
	10 inch cut 12 "	6 50 6 50
	$\begin{array}{c} 14 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\ 16 \\$	7 25
	tory at above figures.	
	Letter books, with index, bound in canvas, 500 pages	1 10
	Letter books, with index, bound in canvass, 1000 pages	2 00
	Plane, iron block	75 80
1	" wood smoothing Post cards printed to order, 50 \$1, 100	1 40
-	Square, steel, grad. both sides, usual price, \$1.75	1 35
	Soldering outfit, consisting of soldering iron, scraper, bar of powdered resin	75

D. A. JONES, Pres.

F. H. MACPHERSON, Sec.-Treas.

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

Manufacturers of and Dealers in Apiarian Supplies

OUR CIRCULAR SENT FREE ON APPLICATION.

Publishers Canadian Bee Journal.

Fine Book and Job Printers.

QUEENS.



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

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

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

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

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

EXPLANATIONS.

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

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

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

ize and honey-gathering qualities. Queens cannot be shipped unless the weather is ware

is warm enough, except at risk of purchaser otherwise safe delivery is guaranteed.

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

BEES.

Bees should always go by express, unless they

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

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

The above prices are for up to four colonies; five colonies up to nine, take off 3 per cent.; ten colonies up to twenty-four, 5 per cent. ; twentyfive colonies and over, 10 per cent-always cash. Bees at these prices will always be sent out in the Combination Hive, and each colony will contain a good queen, some honey, and brood according to the season.

BEES BY THE POUND.

Just as soon as we can raise them in the spring, we will have for sale, bees by the pound at the following prices: — Up to July 1st, \$1.25 per pound; after that date, 90c. per pound. Orders must be accompanied by the cash, and they will be entered and filled in rotation as received. We are booking orders now. Do not delay in ordering if you want prompt shipment.

NUCLEI.

A two-frame nucleus will consist of onepound of bees, two frames partly filled with brood and honey, and an extra good queen, price \$4. Two at one time, \$3.75 each—up to July 1st. After that date the prices will be \$3 singly; two st one time, \$2.75 each. We can send frames that will suit either the

Jones or Combination hive. Please specify which you wish. Should you prefer the nucleus in either Jones or Combination hive, add price of the hive, made up, to the cost of nucleus.

Bees by the pound and nuclei must always be sent by express. Orders for nuclei filled in rotation the same as bees by the pound.

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