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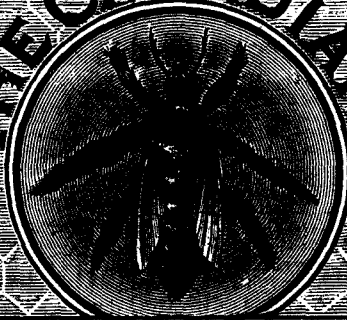
VOL. III. NO. 18

1887

JULY 27.

PUBLISHED EXCLUSIVELY IN THE INTERESTS OF THE HONEY PRODUCER

THE CANADIAN



JOURNAL

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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.

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

TABLE OF CONTENTS.

PAGE

Apiary, Our Own.....	369
Apiary, A house for the.....	374
Bee notes for August.....	376
Bees not working in sections.....	377
Cellar, Artificial heat for.....	377
Editorial.....	369
Honey, Taking extracted.....	377
Holtermann put upon his defence, Mr.....	373
Harvest been, What has the.....	376
Mel capit omnia.....	374
Our portrait gallery—Mr. T. W. Cowan.....	370

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in which, among other things, is made as clear as possible the question of when, where and how to use Foundation. When empty combs are preferable, when the bees should be allowed to build their own combs. How to prevent the building of drone comb, etc., etc.

The price of this book is only 25 cents, and the knowledge gained from its perusal will enable its possessor to save more than the price of the book in foundation, upon each swarm hived; and secure more honey into the bargain. Don't wait until the swarming season is over, but send for the book NOW—and be ready to test, this season, the plans and methods it advises.

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To *Every Subscriber* who will forward to us the name of a *new* subscriber, accompanied by \$1.00, before April 1st, we will send FREE a copy of Rev. W. F. Clarke's "Bird's Eye View of Bee-Keeping," price 25 cents, or W. Z. Hutchinson's "Production of Comb Honey," price 25 cts.

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To those sending us five *new* names and \$5.00, we will send either Prof. Cook's "Bee-keepers' Guide," cloth, or Root's "A. B. C. in Bee Culture," cloth; price, each \$1.25

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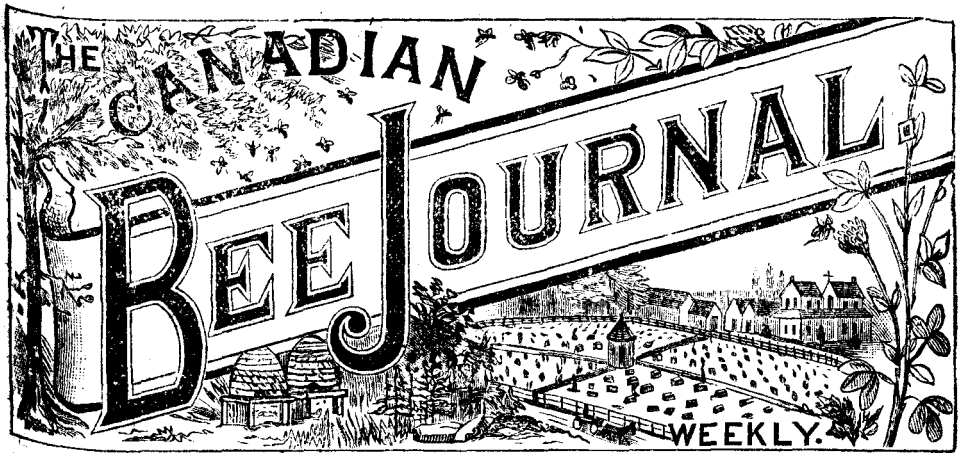
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"THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER."

VOL. III. No. 18. BEETON, ONT., JULY 27, 1887. WHOLE No. 122

EDITORIAL

THE honey season is on the wane and as yet it has not been a success. Taken on the whole, there are some localities in Canada where the flow has been good, in others where it has been but an average, and in many sections we have complaints that there has not been more than sufficient to keep up brooding in the hive. The hot weather has worked much against the secretion of honey in the colonies. The cry seems to be general in the United States that the season has been a failure. For ourselves, we cannot complain. Thus far we have extracted as much as our total production for last year, with fewer colonies spring count, and we have sufficient honey in all our hives to carry our colonies through the winter, while last year we had to purchase some \$800 worth of sugar wherewith to make stores for wintering purposes.

On the 9th July Mr. Thomas W. Cowan, sailed from Liverpool for New York via the Cunard steamer "Etruria." His address for the present time will be, American Exchange, 162 Broadway, New York. We hope soon to be able to advise readers of the BEE JOURNAL when he will visit Canada.

What could be more appropriate than the nicely worded biographical sketch of Mr. T. W. Cowan which appears in

this issue, on the eve of his paying a visit to the bee-keepers of Canada. We shall be glad if it gives our readers the same pleasure to read it as it does us to publish it.

We observe our old friend, J. D. Krustke, has introduced something new in the strawberry line. At the late meeting of the Miami county Horticultural Society quite a long resolution was adopted concerning his new seedling strawberry "Miami." They seem to consider them somewhat ahead of the ordinary strawberry such as we have in Canada.

Mr. Thomas Cowan has arrived at New York, and from there writes us that his present arrangements are to spend the time, until the end of this week, in the states of New York and Massachusetts. He will then go to Quebec and Montreal and from those points westward to pay his promised visit to Ontario. We were in hopes Mr. Cowan's visit would be timed so that we would have him with us during the first week in September and we trust yet to be able to make some such arrangement.

OUR OWN APIARY.

FLAT HIVE COVERS.

THE hive covers which we are now making, and of which we spoke in a late number of the BEE JOURNAL as being water proof and reversible, are giving excellent satisfaction. It

is difficult to get lumber the right width to make the cover all in one piece so that we make it of two pieces and tongue them with metal. The end supports of the lids are about two inches wide and are grooved in the centre so that the cover boards slip into the groove. The ends prevent the lid from warping, and hold it in position so that it cannot slip backwards or forwards; at the same time it makes the top waterproof so far as the ends are concerned. To hold the sides of the lid against the side of the hive we tack one strip on each side at opposite edges on different sides of the lid. These strips are about half-inch square. The one on the under side of the lid makes that side waterproof while the one on the upper side prevents the water from running off on that side. So that unless the rain should be beating against that particular side of the hive the cover is thoroughly waterproof, as all the water has to pass over to the opposite side of the lid where the strip on the under side prevents its passing into the hive. It is slid on the hive from either side by reversing. We used the slanting covers for a great many years and thought that they were pretty nearly *par excellence* but after a short experience with flat lids we must say that we like the latter much better. They take up very little room in storage, less than half the space occupied by the old style, being much lighter in weight and less bulky. They reduce the cost of freight when being shipped to customers. In our experience we have not been troubled with them blowing off. The wind does not seem to be able to get under them the same as with the lid which we have heretofore used. We do not, unless specially ordered, send out the old style any more.

The tremendous heat of Saturday the 16th inst. played sad havoc amongst the bees in some sections. We have an instance where a bee-keeper, a few miles from Beeton, had all the combs in his twenty hives melted down, the bees all smothered and nothing left but a dirty, sticky mass. We have had no trouble ourselves and we doubt very much if the bee-keeper referred to would have met with such a loss had he looked out for the proper ventilation of his hives. This is an important matter.

OUR PORTRAIT GALLERY.

MR. T. W. COWAN.

CHAIRMAN OF THE BRITISH BEE-KEEPERS' ASSOCIATION.

THE editor asked me, a short time since, to give him a sketch of the life of this gentleman for the columns of the CANADIAN BEE JOURNAL, but I first wished to give an outline of the constitution of the B. B. K. A., of which, as I told you in my last letter, he is the worthy *chairman* but not the *president*. But this morning's mail brings me a letter from Mr. Cowan, saying he had arranged to sail for New York, early in July, consequently I hurry this off, hoping it will be in print before he arrives in Ontario.

Thomas William Cowan, chairman of the British Bee-keepers' Association, editor and proprietor of the *British Bee Journal*, Fellow of the Royal Geological Society, Fellow of the Royal Microscopical Society, Member of the British Association for the Advancement of Science, Queckett Microscopical Society, the Palaeontographical Society, etc.; author of *British Bee-keeper's Guide Book*, *Bees and their Management*, *Wintering Bees*, *Doubling and Storifying*, *How to make an Extractor and Smoker*, *Bee-keepers' Note Book*, etc., was born at St. Petersburg, Russia, on the 2nd of January, 1840. His father at that time was an engineer in the service of the Russian government, and continued in the same until the year 1854, when, at the outbreak of hostilities between England and Russia, which resulted in the Crimean war, he left that country. Mr. Cowan's father was addicted to scientific pursuits as a pastime, and his son imbibed from him his love of science. Mr. Cowan's boyhood was passed in St. Petersburg. He was educated at the public school there called St. Peter and St. Paul, which he left at the age of fourteen, and his education was continued at the Royal School of Mines London. He began life as an engineer, but subsequently gave it up as a profession, got married and settled down as an English country gentleman, his means being so ample that there was no necessity for his pursuing his profession as a livelihood, and he thus had ample opportunities of giving himself up wholly to his beloved scientific pursuits.

From early youth his love of natural history was strong, but as time advanced he devoted himself more especially to the study of apiculture. It was in the year 1860, then in his twentieth year, that he first directed his atten-

tion to bees and their management. Having had some correspondence with the late Mr. T. Woodbury, (the Langstroth of British bee-keepers,) who was a large contributor to the bee-columns of the *Journal of Horticulture*, his first attempts were made with the Woodbury hive, but in consequence of having seen some letters in the *Times* newspaper, he was induced to make an attempt with the Stewarton hives also, and from that time he has continued to work both systems. He was at this time residing at Beckenham in Kent, and as there were but few persons pursuing the science of apiculture, he was left, in a great measure, to find out by experiment how to manipulate bees and how to manage an apiary. However, by dint of patience

hives, Stewartons, etc. In course of time he discarded the majority of these, and fixed on a modification of the Woodbury and Stewarton, to which he gave the name of "The Cowan Hive." A full description, with several illustrations of this hive will be found in Cowan's *Guide Book*. Notwithstanding the numerous forms which the frame hive has assumed, the Cowan hive still maintains its place, and a considerable number of them is annually sold by the various dealers. He has also given much attention, for many years, to queen-rearing. He has found that by stimulating queens to their full laying power, their prolificness is well-nigh exhausted in two years, and as the aim of bee-keepers is



MR. T. W. COWAN.

and perseverance, he obtained a complete mastery over the bees, and gained a considerable amount of practical knowledge of the science to which he is so devoted.

In the year 1870 he removed to Horsham, Sussex, where he had greater facilities for practising bee-keeping on a larger scale and extending his experiments. Here he kept his stocks in lofts over his stables, so that he might be able, at all times, and in all weathers, to examine and manipulate his bees. At the same time he kept several stocks in bee-houses and on separate stands in the open. By this means he had an excellent opportunity of comparing the different systems of bee-keeping. His hives, too, were very heterogeneous—skeps, frame hives, cheese boxes, Addey's hive, German

to obtain large quantities of honey, he maintains the necessity of superseding queens at the end of two years, and of substituting young ones in their place. He has also tried all races of foreign queens, and has pointed out the utility of selecting the best strains and the advantages, as well as the disadvantages, of the various crosses. With all other practical bee-keepers, he strongly insists on the desirability of getting the stocks strong in spring, and on the advantages of judiciously spreading brood.

At the first show of the B. B. K. A. at the Crystal Palace, in 1874, Mr. Cowan exhibited upwards of 700 lbs. of super honey, taken from twelve stocks. The following year he was able to show 120 lbs. in two supers from one hive,

and gave bee-keepers the benefit of his experience by showing they were obtained by working his hives on the above plan.

In 1875 he exhibited his honey extractor, subsequently he made considerable improvements in it. Up to the present time he has introduced thirteen different forms of it, the most popular are the Amateur, Rapid, Automatic and Commercial, a full description of which will also be found in his *Guide Book*.

In the year 1878, Mr. Cowan built his present charming residence, "Comptons Lea," near Horsham, whither he transferred his apiary, being one of the best honey districts of England. His bees were at that time principally Italians and Cyprians. He also gives great attention to the cultivation of bee-plants, sowing buck-wheat for his bees, thereby extending the time of pasturage till the first appearance of winter. The "Chapman honey plant" he has grown for years, also another "Echinop's Rico" which he considers superior to the former, but neither of which is of sufficient value to cultivate extensively. Mr. Cowan was the first to take a prize for honey in sections, in this, as in most things connected with apiculture, being a pioneer amongst British bee-keepers.

In 1879 the South Kensington and Kilburn shows brought a large number of foreign bee-keepers to London. These, with the principal British bee-keepers were the guests of Mr. Cowan at his new mansion at Horsham. Amongst the foreign bee-keepers were Mons. Deunler, of Alsace, Herr Gravenhorst and Herr Essler, of Brunswick, and Colonel Pearson, of Nancy. They passed a most enjoyable time together, and the occasion will ever be fresh in the memories of those present.

Mr. Cowan has served on the committee of the B. B. K. A. from its commencement, and from 1878 he has been chairman by virtue of his obtaining the largest number of votes at each successive election.

After the lamented death, in June 1885, of the late Rev. H. R. Peel, the proprietor and editor of the *British Bee Journal*, when we all stood appalled as to who should fill his place, Mr. Cowan was requested to undertake the responsibilities of editorship. This he kindly acceded to, and from August 1885 it has been conducted by him. In the fall of 1886 he also became its proprietor.

Mr. Cowan is a good linguist; he has also spent much of his time on the continent of Europe; he is consequently well versed in the various methods of bee-keeping and appliances adopted by French, Swiss and German bee-

keepers. He takes and reads every journal and periodical devoted partially or wholly to apiculture. His correspondence is enormous and he often labors from 6 a.m. to 10 and 11 p.m., at the microscope and translating from the various foreign bee-papers. His *Guide Book* has been translated into several of the European languages. The English version of it has met with surprising success. Published so late as the fall of 1881, it has reached the seventh edition, and nearly 15,000 copies of it have been sold. This is the more remarkable when we consider that at the same time another publication named *Modern Bee-keeper* has been published by the B. B. K. A. at sixpence—nearly or less than, cost price, and Mr. Cowan's *Guide Book* is one shilling and sixpence.

In 1886, at the great metropolitan exhibition of honey, hives and bee-appliances, of the B. B. K. A., held in the conservatory at the Indian and Colonial Exhibition, South Kensington, Mr. Cowan acted as one of the judges. He also took the chair at the two conferences that were held on July 31st and August 4th, respectively, at the former of which he read a very able paper on "the development of bee-keeping as an industry." Some idea of the importance of this exhibition may be given, when we consider bee-keeping was the only British industry represented at the Indian and Colonial Exhibition. (Rather hard this on Canadian bee-keepers). On the arrival of the Canadian delegates, with their large consignment of honey, it was determined that they should be invited to a luncheon; this was held on Wednesday Oct. 6th, on which occasion Mr. Cowan worthily sustained his position as chairman.

As a judge, Mr. Cowan is well known in all parts of this kingdom, in which capacity his experience, impartiality and gentlemanly bearing, cause the greatest confidence to be reposed in his judgments. Moreover, he is so well known on the continent that the Swiss government has recently paid him the very high compliment of making him senior juror in the apicultural department in their forthcoming great exhibition.

Two years ago Mrs. Cowan was not expected to live, she, like many others, well-nigh falling a victim to the humidity of our climate. On the advice of physicians the dry climate of Switzerland was tried with most beneficial results. But a fortnight in England in 1885 bringing on a relapse, Mr. Cowan has not attempted to stay with Mrs. Cowan in England for any time till the past few weeks. They are at present on the south coast making arrangements for their

visit to Canada and the States. Mr. Cowan is fond of travel and of sport. He has "done" some of the roughest and grandest parts of Norway, some days depending on his gun for his subsistence. He has five children, all of whom inherit their father's traits of character. He and a son and daughter have more than once passed over glaciers and climbed some of the most difficult parts of the Alps, bound together, without other aid or guide. He is still in the meridian of life, and as in the past, bee-keepers and bee-keeping are much indebted to him for the time and attention he has devoted to them, so we trust that he may be spared many years to display the same single-mindedness, energy and skill in their behalf.

Personally I am pleased that he is about to pay you a visit. It will increase his experiences of bee-keeping, and I can anticipate for him a true Canadian welcome. I sincerely trust the journey will be beneficial to Mrs. Cowan, that she may long be spared to him and her family and both of them to us. The oldest son, a handsome young Englishman of twenty, inherits his father's love of bees, and being about to enter the university to prepare for the Church, we hope to get his name enrolled amongst famous bee-keepers. Canadian bee-keepers will do well to "extract" Mr. Cowan on the subject of *storifying* and *superseding queens*. He has the calm dignity of a well-bred Englishman, unfortunately not sufficient voice to be heard well in a large building, but a knowledge of bee-keeping that you will not fail to appreciate. A prosperous journey to him and a safe return to the land that is the home of him and

AMATEUR EXPERT.

Most heartily do we thank "A. E." for the nice sketch he has given us of Mr. Cowan. None could have done it better.

For the Canadian Bee Journal.

Mr. Holtermann Put Upon His Defence.

ON the 20th ult. I sent the following communication to Mr. Holtermann for publication. A few days after he sent me a letter stating that because it was not sent in before the 15th it could not appear till August. As the matter will by that time have lost interest, I have to request that it be published in an early issue of the C. B. J.:

To the Editor of the Canadian Honey Producer:

SIR,—Since it pleases you to criticise the management of the delegates at the Colonial Exhibition, and to condemn them for a course

which they did not pursue, I claim the privilege of space for a reply.

In your issue for May you say: "Dealers kept calling during the exhibition for prices on honey, desiring to retail. The majority of the commissioners, however, decided not to give them prices, or sell them honey. After the exhibition closed prices were not quoted to such parties for some time." My reply is that it is not true that the delegates decided not to quote prices to dealers and not to sell them honey during the exhibition, but on the contrary I speak for three of the delegates when I say that the wholesale price agreed upon, namely, sixpence per pound for extracted, was freely quoted to dealers. At this price sales were made to dealers during the exhibition, and at this figure the stock on hand at the close continued to be sold, till the building we occupied was about to be taken down. As soon as possible after the exhibition closed, I wrote letters to about thirty dealers, whose addresses we had obtained, stating the quantity we had on hand, the kind of package, and the price, still sixpence per pound. This was the price at which the best brands of honey were then being furnished by wholesale houses to retailers, and it was not the policy of "the majority of the commissioners" to make little of Canadian honey by offering it at less than market price.

You refer to a "plan of sale" proposed by Mr. Pettit as being preferable to the one adopted. In reply, I have to say that every contributor to the exhibit has been furnished with a card having the addresses of dealers who purchased our honey, and they have also a proposal from a respectable commission merchant to take their honey and sell it on commission. We made inquiry and found that his financial position is good, and we believe, too, that he is strictly honorable. If the contributors wish to send their honey to be sold on commission, and notify dealers where it may be obtained, they have the opportunity and all necessary information. I may add that the merchant referred to above is the one alluded to by "Amateur Expert" in a recent number of the CANADIAN BEE JOURNAL. When we were notified to vacate our building by a certain day, I called on this merchant with a view to induce him to purchase our stock on hand, and to confine his operations in future to Canadian honey exclusively. He was open to such a deal, on condition that he should also have control of Mr. Jones' supplies. I explained Mr. Jones' relations to Canadian bee-keepers, both as their representative at the exhibition, and as an editor and supply-dealer, and told him it would never do to connect the sale of the con-

tributors' honey with the sale of Mr. Jones' supplies. We sold him no honey.

We had several offers for the whole lot during the exhibition. I consulted Mr. Chipman, Sir Chas. Tupper's chief secretary, in regard to one such offer. He said he had no doubt the party I mentioned could pay cash down for all the honey we had. He was not going to say what we must do with our honey, but he was of the opinion that the course we were pursuing, distributing the honey amongst the greatest possible number of consumers, was decidedly the wisest one, in view of opening up a market in the future. Only a few weeks ago I had a card from a lady in London, enquiring where she could purchase some of our Canadian honey, and one of the most intelligent English bee-keepers we met with, writes that the demand for honey was never more active than it is at present. He attributes the increased demand very much to the stimulus we gave it last fall. I may say, too, that with a no less keen eye for business, Prof. Robertson, observing our success, took a leaf from our book, and put up his cheese, sent by the Ontario Government from the college at Guelph, in packages at from two pence up, in order to create a still greater demand for Canadian cheese.

Alluding to our management again in your issue for June, you write: "We would here say that in regard to the Colonial Exhibition management we have nothing to withdraw and are prepared at the proper time to prove the statements made in the matter." Your "statements made in the matter" have now been contradicted by three of the delegates, those who were in charge of the exhibition, not merely for a couple of weeks, but those who stuck to their posts from their arrival till the last pound was sold and the last shilling collected. Whether you choose to face the music or not the public will be apt to think that "the proper time" has now come for you to prove your statements or take the inevitable consequence.

S. CORNELL.

Lindsay, 20th June, 1887.

The above article arrived too late for insertion in THE CANADIAN BEE JOURNAL of last week, for which it was sent.

From our English Correspondent.

MEL SAPIT OMNIA.

MUST cut you short this time under this heading. Business is brisk, bees are busy, and I am too, from early till late. I have never in all my experience found the value of the "regulation" feeders so great as I have this season. I have fed from the middle of April

till the 5th of June with only one break of three or four days, and I have so gauged the quantity given that no single hive has stored 2 ounces of sugar syrup but consumed all I gave them from day to day. The mortality amongst bees consequent on the unusually long spell of cold east wind has been great, but the food given has kept the queens breeding.

On June 8th the "clouds rolled by," the sun shone out hot. On went the supers and I never knew the bees to store the same quantity in the same time, as they have since. Our spring is more after the fashion of yours, but we shall get a good honey year yet I believe.

AMATEUR EXPERT.

England, June 11th, 1887.

Gleanings.

A HOUSE FOR THE APIARY.

MR. ROOT:—I have been giving much thought of late to the plan for an ideal house for the apiary. You will remember we talked of it while you were here. I have also conferred with such authorities as Messrs. Hutchinson, Doolittle, Dr. Miller, Heddon, etc. It seems to me that this is a question of exceeding importance, and I wish to submit my drawings and reasons for this plan for criticism, that we may secure the very best. The house is three stories—a cellar 7 ft. high; first floor 8 ft., and chamber 6 ft. at the lowest part. The cellar is for wintering bees; the rooms above are for honey, extracting, and shop; the chamber is for storage. The cellar has two rooms. One, for bees in winter, is 18 x 24 ft. This is entirely under ground, with a good stone wall, grouted below and plastered above, with a double floor grouted between—to secure against mice and cold alike, and with the partition wall double, with double doors. At the centre of the partition wall a small chimney runs from the bottom of the cellar up to and through the roof. Just within the wall of this room is a small gutter which extends nearly around the room, as seen in the drawing, from one end of a cistern to the underground sub-earth ventilation-pipe which runs 200 feet or more underground. Thus this pipe of four-inch glazed tile serves for sub-earth ventilation, overflow-pipe for a cellar cistern, and it can be made to empty the cistern and cool the bee-cellar at any time, the water passing through the small gutter.

In the other room of the cellar, which is 8 x 24 ft., there is a cistern 8 x 14 ft., and 5 ft. high. As will be seen, this extends 2 ft. into the bee-cellar, yet the partition is tight, except a small hole just at the bottom, so we may say we have two cisterns—one a small one in the bee-cellar, the other

a large one in the other cellar, though they are connected at the bottom. The other room, which is a sort of vestibule for the bee-cellar, has two windows—one (1 x 2) by two ft., and stairs to the room above, which are covered by double trap-doors. This room is entirely under ground, though the outer double door, which is 4 ft. wide, is, because of a natural slope of the ground, on a level with the outside, or else is inclined so we can easily run a wheelbarrow into the cellar. The windows may receive light by a half-circular excavation, or, if desired, may be above the earth at this south-east corner of the house.

Here, then, we have an arrangement by which we can control the temperature perfectly, from October to May; and from an experience extending now over eight years, I am sure that, with enough good food, bees are entirely safe in such a cellar. By aid of the cistern there is no occasion to use ice to reduce the temperature in spring; and we can, by aid of sub-earth ventilation and cistern water, keep the temperature just to our liking all through the winter, with almost no trouble and at no expense. This is no theory: it is a demonstrated fact. As the bees can be wheeled into the cellar, their removal to or from the cellar is a very light task.

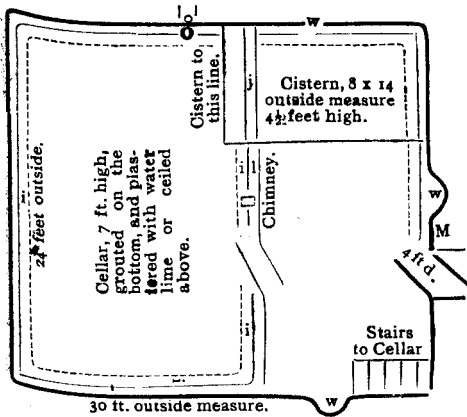


FIG. 1.

REFERENCES AND REMARKS.

- D; 4-ft. double doors.
- G; gutter.
- J; stone wall 4 1/2 feet, or all the way up.
- L; double wall lined with paper.
- M; passageway from cellar, with stone abutments on each side, and level with outside so a wheelbarrow can be run in and out.
- O; Drain of 6-inch tile—Dr. Miller says 10-inch—following the dotted lines 200 feet, and all the way below frost or variable temperature mark.
- W; cellar windows, 1 x 2 1/2 ft., double, outer glass, and inner wood. Both are hing. 1 above so as to open in easily.

On the ground floor, which is on a level with the earth outside, there are three rooms. One on the south-west, 12 x 15 ft., is for extracting

and extracted honey. It has a hard-wood floor, wide outer door, and only one thickness of wall, so that in summer it is kept very warm, and so enables us to ripen honey without leaving it in the hive till it is all capped. This is also a demonstrated fact. The joists above are just so wide that they serve as frame-supports. The windows are poised with weights, and these and the door have an outer gauze hinged frame. In case of the windows, this extends three inches above the outer wall, leaving a half-inch space, so that bees can easily pass out, while they do not pass in.

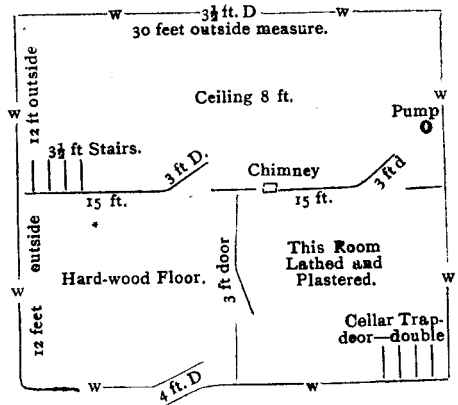


FIG. 2.

D; doors, the double one at the bottom having a sill so low a wheelbarrow can be run over it, outside door being of gauze.

W; windows, all of which have wire gauze screens outside, and hinged to swing out. Screens on four south windows to extend 4 inches above upper jamb, with 1/2-inch space.

Posts, 14 ft. Studding, to chamber, alternate 12 and 18 inches apart (?) Side studding 12 feet long and 1 foot apart.

Floor double, one foot apart, and with grouting.

Cellar and house mouse-proof.

A second room on the south-east is also the same size, but is double walled, lathed and plastered. It contains a stove, but has no outer door. It is for comb honey, for an office, and has trap-doors to cellar stairs. I find that some are not in favor of this room, but I think it very desirable.

The entire north side of the building is for a shop. This is 12x30 ft. It has a pump from the cistern below, and stairs to the chamber above. It has an outside door, four windows, and a door into each of the other rooms. There will also be a stove in this room. In winter, then, when we have a fire in either room, the chimney will be heated, and the air drawn from the bee-cellar. The wind, too, passing over the chimney, will suck the air from the cellar. In both cases the air is supplied through the long sub-earth pipe, and so is tempered by the temperature of the

earth, and is kept sweet and pure. This is both theory and demonstrated fact. This room is large enough so that a small engine and some machinery can be introduced if desired. I find that this house, large enough for a large apiary, can be built for \$500; and for safety and convenience I believe it fills the bill. I can not agree with Mr. Heddon, that we had better have double-walled houses above ground. I think the cellar far better and more convenient. I shall be very glad to have this plan criticised in the next number of *Gleanings*, for, as stated before, this is a matter of great importance to all bee-keepers in the Northern States and in Canada.

A. J. Cook.

Agricultural College, Mich., June, 1887.

Gleanings.

WHAT HAS THE HARVEST BEEN?

AND SHALL WE BE IN A HURRY ABOUT SELLING
WHAT WE HAVE?

IT has been pretty slim here—the poorest since I have been in the business. In a letter just received from Mr. Heddon, he says: "Clover, one-fourth crop. Basswood blossomed full, but no better crop than clover. It went right by like a cyclone—all over before we knew it was drawing to a close." This expresses the situation exactly. Well what are we going to do about it? We can keep our dishes right side up, and I presume most of us have lost nothing from lack of care in this direction, but we can't make honey-showers. Those of us who are fortunate enough to have any surplus will probably find ready sale for our honey at a good figure. Prices will probably not go so high that our income will be what it would have been had the harvest been abundant; still this is not impossible. Farmers sometimes make the most money during the years when crops are light. Twenty-five or even twenty cents per pound for comb honey would be a big boost for those of us who have a few hundred pounds to sell. That these figures may be reached, does not seem at all improbable. Already honey is being quoted at 16 to 18 cents, while nearly every market is reported as bare of honey. Honey-dealers are becoming really interested in the situation. Only a few days ago I received a letter from Thurber, Whyland & Co., making inquiries in regard to the honey-crop, and asking, "What is the outlook?" Those who have honey to sell should not be in a hurry to market. Certainly nothing can be lost by waiting until November or December.

And now a word about the bees. Many of them will probably be short of stores, and unless fed, will die of starvation the coming winter.

Many bee-keepers will "lose their heads," become disgusted and discouraged with the bee-business, and the bees will be neglected. Honey will bring a big price, and by next spring their courage will return, and those who have bees to sell will have no difficulty in getting good prices. So, to those who will attend strictly to business the short crop of this year may be a blessing in disguise. See that the bees are well cared for; that they go into winter quarters in first-class condition. This will probably be one of the years when it will pay to winter the bees on sugar, as the difference in price between honey and sugar will be greater than it has been in several years. Keep a stiff upper lip, and, if you must retreat, do so in good order.

W. Z. HUTCHINSON.

Rogersville, Mich., July 11th, 1887.

American Agriculturist.

Bee Notes for August.

IN sections where dark honey is gathered this month, the nice, white clover and basswood honey should be taken from the hive before it is soiled, or before it is injured by admixture with the darker. Boxes taken off in June and July should be carefully examined, and if worms are found, the honey should be fumigated with sulphur. When dark honey abounds, it is well to take the full frames out of the hive and set away for winter stores, replacing them by frames of foundation. I advise this very strongly, when bees can be secured in the fall from neighbors who make a practice of destroying their bees. So also where aster, golden-rod, smart-weed, or other autumn flowers abound, which produce nice honey; this can be saved, and the less salable buckwheat honey be substituted for winter. Continue the brood-rearing this month, even if it shall be necessary to feed, as successful wintering depends on the care of the bees during this month and the next.

If the honey harvest has closed, see that all empty cells are in the center of the brood next where the queen may deposit her eggs. After the flowers have finished secreting nectar, the bees are much more difficult to handle, and are more inclined to robbery than at any other time. Therefore in removing boxes, be as gentle as possible, and smoke them well before opening the hive.

If any stocks are weak, build them up by inserting frames of brood from others. Keep entrances contracted, as a safety against robbers. If surplus boxes are on, they must be kept warm, to aid wax-working.

W. M. B. TREADWELL.

SUNDRY SELECTIONS.

B. FOSTER.—Enclosed find remittance for balance due you. The goods arrived in fine shape and gave excellent satisfaction.
Ponsonby, July 16th, 1887.

R. P. SMALL.—Basswood in this district is almost an entire failure, although we have about two thousand trees on our farm.
Dunham, Quebec, July, 1887.

WM. MORRIS.—Re article in C. B. J., June 8th, by G. M. Doolittle, on Swarming, etc.—Think the above well worth the subscription for one year to C. B. J.
Rodney, Ont.

TAKING EXTRACTED HONEY.

SMITH & JACKSON.—We use a two-story hive and always extract from the top story, never disturbing a brood-nest. There are nine frames below and eight above. We always wait until the honey is capped over; it is thus thoroughly ripened and ready for sale the moment that it is taken from the comb. Immediately on its being extracted we put it in cans holding 75 pounds each, with screw tops. We took the first prize at every fair where we exhibited our honey last fall. Many tons of it we shipped to Montreal.

Tilbury Centre, June 23rd, 1887.

ARTIFICIAL HEAT IN BEE CELLAR.

JOHN YODER.—I ventilated my cellar with a three-inch pipe connected with the cook-stove chimney. Supposing I needed heat and I let the same kind of pipe, viz. three inches, run down into the cellar clear to the bottom and up again into the same pipe with damper between connections, when the fire is burning well I turn the heat on small pipe, would the draft of the stove drive the heat down so as to heat the cellar? Of course I can try it, but has any one had any experience?

If you could get sufficient draft no doubt the heat could be drawn down, but it would be rather difficult to do unless you had a very strong draft. Heat being much lighter than cold it rises rapidly and is about as difficult to get down below where it is generated as it would be to crowd liquid oil or grease down in water; it being light, rises to the top. If any of our friends have had experience in this matter, will they please report.

BEEES NOT WORKING IN SECTIONS.

J. HARRISON.—I herewith enclose 25 cents and would like you to forward the C. B. J. to me for four months, also I should be very glad if you would tell me why my bees do not work in the sections? They have swarmed once and are full below. The hive is a Langstroth.
Raglan, July, 17th, 1887.

That would be a very difficult question to answer unless one knew what

were the conditions of the hive. Perhaps you did not put on the sections soon enough and may not have given them enough room until they got the swarming fever, when it would be very hard to prevent them from swarming. When the honey comes in slowly and is thin they are more liable to swarm. Then again your combs may have had two or three inches of sealed honey near the top. Getting the brood to the top of the racks is a very important item in getting bees into the sections; but the Heddon principle does away with this difficulty. Bees that would never work in a section the whole season can be induced to go in in a day or two by simply raising the top half of the brood-chamber and placing the sections on the lower half of brood-chamber, then placing the other half on top of the section; thus you observe we have the sections between the brood. We have sometimes found that two stories were not sufficient and put on three, four, five, and so on, raising those that the bees work the most in at the top and putting the empty ones in next to the brood. We are also tiering up our hives. Many of our single walled hives now have a second story, the bees working as well in the second as in the first, both hives holding twelve frames; but in top stories we usually put only ten. Another point in using the top stories for extracting purposes is that the cells may be lengthened by the bees sufficiently long by keeping combs apart to prevent the queen from laying eggs in them. But this is a disadvantage, as we find in such long or top cells honey does not ripen as well or as quickly as in shallow ones. On many of our hives we have three supers. These are the Combination and yet we find that even three supers did not prevent some of them from swarming and putting the swarm back, raising up the two top stories and putting an empty one, filled with comb or foundation under, thus giving them about nine thousand cubic inches of room, they forgot all about the swarming and piled in the honey at a furious rate. We have been testing this matter pretty thoroughly this season and believe that the swarming may be almost or entirely prevented by the proper system of management. Take off one or two of these stories and

NEW YORK.

Sales of comb honey the past two months exceeds largely sales of corresponding period of last year. The large stock in dealer's hands is becoming less every day, and the present outlook is that all the better grades will be closed out before the new crop arrives. There is quite a large stock of dark and off grades of white, which we apprehend will be carried over. Prices are ruling low, we quote:—White comb, 9 to 12c.; dark comb, 5 to 7c.; California extracted, 5 to 6c.; California comb, 8 to 9c.; beeswax, 23 to 24½c. We beg to inform you that we have removed our place of business to 28 and 30 West Broadway, near Duane St., where we have better facilities for handling honey.

McCAUL & HILDRETH BROS.

EXCHANGE AND MART.

SMOKERS.—We have 10 No. 1 smokers and 26 No. 2 smokers in stock, which we will sell cheap to clear them out. They have the old style inside spring, but are otherwise just as good as new ones. Price, No. 1, \$1, by mail, \$1.40; No. 2, 75c., by mail \$1.00. The D. A. JONES CO., Ltd., Beeton, Ont.

CARNIOLAN QUEENS!

THE GENTLEST BEES AND BEST HONEY GATHERERS KNOWN.

"The queen I got this spring is doing fine. The workers in that hive seem to be doing as much as any other two hives."—W. J. Porter, Kemptville, Ont., July 13th. Send postal for circular. \$1.10 for queen to Canada, California, S. America, England and Ireland. \$1 in the U.S. S. W. MORRISON, M.D., Oxford, Chester Co., Pa.

Mention this Journal.

TESTED * QUEENS!

We have just run over our apiaries and find that we have yet 193 specially selected and tested queens, bred in July and August last year. They were selected from several thousand and we will guarantee every queen to give satisfaction. While they last we will let them go at only \$1.75 each, or \$1.50 each for six or more at a time. This is a rare chance to get queens at about half their value.

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

OUR 60 LB. TINS.

We have already sold enough of these to hold a crop of over 100,000 lbs of honey. They are better made than ever, and are encased in our new style of wooden case. Have a large screw top, as well as a small one, and are thus excellent for granulated as well as liquid honey. The prices are:

- Each.....\$ 0 50
- Per 10..... 4 80
- Per 25..... 11 25
- Per 100..... 42 00

"Charcoal" tin used in these. As a rule "coke" is used.

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

CANADIANS

Want to supply their wants at home as much as possible, but heretofore they have not been able to do so, at least for bees by the pound, frames of brood, and nuclei. We have decided to furnish them at the prices as found in the following table:

BEES BY THE POUND.

	May	June	July	Aug st	Sept.
Bees, per ½ pound	1.75	1.50	1.00	1.00	.90
“ “ pound	3.00	2.50	1.85	1.75	1.70
Frame of Brood	1.75	1.50	1.00	1.00	.90
2-frame nucleus..	4.00	3.50	3.00	2.75	2.50
3 “ “	6.00	5.50	4.75	4.50	4.50

Frames of brood cannot be sent alone. Queens are not included in above prices. Choose the kind you want and add enough to price found here to cover cost of queen.

Two frame nucleus consists of ½ pound bees, two frames partly filled with brood and honey, and a nucleus hive. If wanted in either "Jones" or "Combination" hive, add price made up, and deduct 40c. for nucleus hive.

Three frame nucleus, same as two-frame, with the addition of another half pound of bees, and another frame of brood, etc.

All prices here quoted are for frames that will fit the "Jones" or "Combination" hive.. You may have whichever style you desire. Be sure to specify when ordering.

Of course the only way for the above to go is by express.

QUEENS.

	Horn-bred	Untested	Tested	Selected	Virgins
May	2 00		2 50	3 00	
June	1 50	1 00	2 00	3 00	0 60
July	1 00	90	2 00	2 50	50
August	1 00	1 00	2 00	2 50	50
September	1 50	1 50	2 50	2 75	
October	2 00		2 50	3 00	

FULL COLONIES.

	Italian	Holy Land Crosses	Carniolan Crosses	Hybrids
May	\$9.00	\$10.00	\$11.00	\$8.50
June	8.00	9.00	10.00	7.50
July	7.50	8.00	9.00	7.00
August	6.50	8.00	9.00	6 50
September	6.50	7.00	8.00	6 00
October	7.00	8.00	9.00	6 50
November	8.00	8.00	9.00	8 00

The above prices are for up to four colonies; five colonies up to nine, take off 3 per cent.; ten colonies and over, 5 per cent. Colonies as above will each have six to eight frames of brood, bees and honey, and good laying queen.

The Canadian Honey Producer

A MONTHLY BEE PAPER,

Forty cents per year and three subscriptions at one time to any address, \$1. Sample copies free. Also manufacturers of all kinds of bee-keepers' supplies. Address,

E. L. GOULD & CO.,
Brantford, Canada.

BEESWAX WANTED!

Will pay 30 cents in cash or 33 cents in trade for any quantity of pure Beeswax.

Comb Foundation for sale, to suit any size frame or section. Wax worked on shares or for cash. All freight to Campbellville station C.P.R. It by mail to

ABNER PICKET,
Nassagawaya P.O., Ont.
Agent for D. A. Jones Co.'s supplies. 52-6mo.

DOOLITTLE

Wishes to say to the readers of the CANADIAN BEE JOURNAL that he has concluded to sell Bees and Queens during 1887, at the following prices:



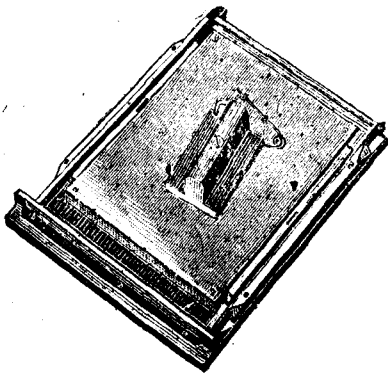
One Colony Bees.....	\$7 00
Five Colonies.....	30 00
Ten Colonies.....	50 00
1 untested Queen.....	1 00
3 " Queens.....	2 00
1 " Queen reared by natural swarming.....	1 50
3 Ditto.....	3 00
1 tested Queen.....	2 00
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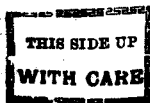
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