Che

Canadian Bee Journal

Devoted to the Interests of Bee-Keepers

Vol. 18, No. 4.

April 1910

\$1.00 Per Annum

HE melting of combs can be done either by the heat of the sun's rays, or with boiling water, or by steam. But only rain or river water is suitable for the purpose, and no other should be used, seeing that well-water, if hard, is liable to cause the wax to turn brown in color. Lime in water also unites with the fatty acid of wax, saponifying it, so that, after cooling, wax rendered with hard water has on the under side a spongy, greyish mass. When rain or river water is not available, vinegar or a small quantity of sulphuric acid should be put into the water, just sufficient to neutralize the lime. Copper vessels are preferable, but if not available, iron ones can be used, but they should be first heated and rubbed with a piece of mutton fat, which not only prevents the acid fron attacking the iron, but the latter will not afterwards discolor the wax. It should also be noted that the nearer to the melting-point at which all melting operations are performed the finer will be the product, a high temperature destroying both the color and aroma of the wax produced .-- T. W. Cowan's "Wax Craft."

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BRANTFORD, CANADA

THAT PILE OF OLD COMBS

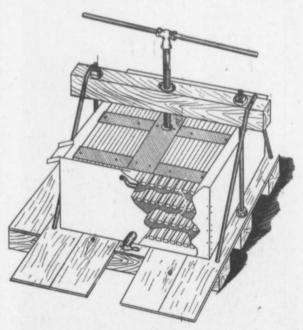
The Honey Season over, and the bees snugly packed away for the Winter, the Bee-keeper will be able to turn his attention to the accumulation of old and broken combs in the honey house and other places. To the careful Apiarist this accumulation represents so much extra cash over and above his honey crop, and will be treated accordingly. He uses a Wax Press, of course—the latest and best.

The old systems of boiling and steaming did not extract much more than half the wax the comb contained, the steam press was better but still there was sufficient left in the refuse to make it excellent but expensive fire kindling. The latest and best is that of pressing under water, which separates and washes out the wax,

practically removing every particle of the valuable.

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JAS. J. HURL

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Printing for Bee HONEY LAE LETTER HE BILLHEA

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The HURLEY PRIN Brantford, (

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Devoted to the Interests of Bee-Keepers

JAS. J. HURLEY, Editor

Published monthly by The HURLEY PRINTING CO., Brantford, Ont.

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The Canadian Bee Journal

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JAS, J.

Vol. 18, No. 4.

Failure to do need time will injuriously later on.

Wintering reports Mr. Byer reports e four yards.

Keep your eye of orchard. If he need ing give them to him his interest rather the

Mr. Ross writes other column on h very efficiently sum ments of a cover. that our covers do r hives deep enough, is none too deep, e protection is needed in early spring.

We have had the our exchange list "published at Vancou Smith is its editor. in the field of journ being now on our of fully-printed and wand should be in the man. The C. B. success.

We examined all home yard on Goo all in good condition in all stages. So out. In some hives laying, owing to an len. They had us

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The Canadian Bee Journal

PUBLISHED MONTHLY

JAS, J. HURLEY, EDITOR, BRANTFORD, ONTARIO, CANADA

Vol. 18, No. 4.

APRIL, 1910

Whole No. 542

Failure to do needful things just at this time will injuriously effect the surplus later on.

* * *

Wintering reports are very satisfactory. Mr. Byer reports every colony alive in four yards.

* * *

Keep your eye on the man with an orchard. If he needs pointers on spraying give them to him gently, emphasizing his interest rather than your own.

* * *

Mr. Ross writes interestingly in another column on hive covers. He has very efficiently summarized the requirements of a cover. We have always felt that our covers do not set down over the hives deep enough. Three or four inches is none too deep, especially when extra protection is needed on top of the frames in early spring.

We have had the pleasure of adding to our exchange list "the Fruit Magazine," published at Vancouver, B.C. Maxwell Smith is its editor. It is a new venture in the field of journalism, the sixth issue being now on our desk. It is a beautifully-printed and well-edited magazine, and should be in the hands of every fruit man. The C. B. J. wishes it every success.

* * *

We examined all our hives in our home yard on Good Friday, and found all in good condition. Brood was found in all stages. Some was just hatching out. In some hives the queen had ceased laying, owing to an entire absence of pollen. They had used up all they had.

However, they were gathering it at that time in good quantities, and continued doing so every day up to March 30th. Even if we do have some bad weather during April, this should give them a good start.

* * *

We feel sure all will be pleased to read Mr. Haberer's letter on honey pails in this issue. Mr. Haberer is a good honest German, who wishes to do right to everybody. He wishes to be fair and honest with the buyer of his honey, and at the same time he is willing to co-operate with his associates in his association. If it is to be gross weight he is willing to conform, but he desires that his customer should know what he is buying. His sale prices show that he made an effort to adhere to the rates quoted by the honey crop committee.

* * *

Mr. Mireault has asked us to state the means by which a Canadian bee-keeper may join the National U. S. Association, We have put the question to Mr. N. E. France, so as to leave no doubt about the matter. He has kindly replied as follows:

"Any Canadian bee-keeper by paying \$1 annual dues to the secretary of the Ontario Bee-keepers' Association, or sending the same to the Canadian Bee Journal, or giving it to Wm. McEvoy, will become an annual paid-up member of the Canadian Beekeepers' Association and the National Bee-keepers' Association. He will receive from the National a receipt for dues, button, copy of the last annual report and a free copy of a book 'Bee-Keepers' Legal Rights.' I suppose also that dues would be received by any of the Canadian Bee Inspectors."

All our old weather prophecies, signs and superstitions, will have to be laid aside hereafter; what "they say" no longer holds good. March came in like a lamb, continued lamb-like, and went out like a lamb-in short we had ideal spring weather throughout the entire month. The snow melted away gradually, no serious flooding was done, and there has been no subsequent frosts to "heave' the wheat or clover. Although we may yet have some unpleasant weather, we do not hesitate to urge readers to make adequate preparations for a bumper crop this coming All the indications point that season.

Many old members of the Ontario Bee-Keepers' Association will regret to learn that W. J. Brown, of L'Orignal, has moved to California. He was for a lorg time a very active and greatly esteemed member of the Association, and was ore of its past presidents. Failing health had made it necessary that he seek a change of residence, so he chose the sunny climes of California. He writes us hopefully and optimistically, and says he is enjoying the beautiful climate among the fruit and flowers. He is located midway between the cities of Los Angeles and Long Beach on the Pacific Ocean. A twenty-minute run on the car either way brings him to the city. He has attended some of the bee conventions, and has met many Canadians. The C.B.J. joins with his many friends in wishing him every success.

Mr. Almond Dulmage has asked us to state how far apart should two strains of bees be kept to keep them from mating. This is an old and much debated question and various opinions have been given upon it. Many long flights are credited to bees. We will not attempt to quote the different authorities, but will take the responsibility of saying that two miles should be ample distance apart. If anyone feels at liberty to dispute the dis-

tance we will be glad to hear from him. It is true that worker bees may go a great distance, but ordinarily we do not believe that they will go much over a straight mile from the yard. But whether this is true or not has very little bearing on the subject. The real question is, how far away do drones and queen go when flying about mating? We venture to say that drones and queens fly but a very little distance away from the home yard. If this be true, two miles apart will be quite ample.

N. E. France, the indefatigable manager of the National Association of the United States, has sent out a circular letter to all the members advising them that if they will put upon the market a good, well-ripened honey, they will have a market, the demands of which it will be impossible to supply. We quote what he says, and have no hesitation in giving it

our entire approval:

"I have devoted much time to why so many complain of no market for honey I have asked fifteen wholesale dealers, why honey sales were slow when other foods were ready sale at high prices. Also asked bee-keepers who buy tons of honey besides their own for bottling and also asked many who used to be extensive honey eaters why they had dropped it from their daily 100d. Almost every one replies with this answer:

Good well ripened honey, sealed by the bees and matured in the hives is always in demand at fair prices. But this thin stuff extracted before it is ready—before it is well-ripened—that will sour—that never has either flavor or body—that is what spoils market for honey. Through Information Bureau I had many offers to sell sent me. Several such lots I found sales for and later got word from purchasers the thin honey had no body or flavor, except souring.

If every National Bee-Keepers Association member will promise me all his honey will be ripe, capped over honey, before it leaves his hives he will have a market he never can supply.

Our Association never can brand its members honey until this is done."

We visited our "out of Mr. John Simmingto March 25, and assisted bees from the cellar. about eight o'clock or About twenty-five hive and three of us, (Mr. Harold, assisting), did fifteen or twenty minu bees but very little. nounce that every hi and some had started k in the cellar. The p in the_cellar last fall work of Mr. Simmingto was simplicity itself. were not removed. Th en off. Small strips w frames, and a sack thr This gave a bee-space under the sack. The top of each other six having a sack over the ers, with a cover rest gave the bees ample before removing the b we took newspaper ro and closed all the entr the hives up and carri their stand, pulled the the trick was done. bees, no loss, no stingi cool and moonlight, ar knew they were transf ing we looked them ov the early east sun shir trances. Everything An old w peaceful. cured and while Mr. S the writer brushed e clean. The bees h while you could say Our good host then morning drive to ma back to business earli been at home. Mr. S that they have been gathering pollen every bees must remain dur

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We visited our "out yard" at the home of Mr. John Simmington, Burtch, Friday, March 25, and assisted in removing the bees from the cellar. The work was done about eight o'clock on Friday evening. About twenty-five hives were removed, and three of us, (Mr. Simmington's son Harold, assisting), did the work in about fifteen or twenty minutes, disturbing the bees but very little. We are glad to announce that every hive came through, and some had started brood-rearing, while in the cellar. The placing of the bees in the cellar last fall was entirely the work of Mr. Simmington, and his method was simplicity itself. The bottom boards were not removed. The covers were taken off. Small strips were laid across the frames, and a sack thrown over the hive. This gave a bee-space over the frames under the sack. The hives were piled on top of each other six high, the top one having a sack over the bees like the others, with a cover resting on top. This gave the bees ample ventilation. Just before removing the bees from the cellar we took newspaper roughly crumpled up and closed all the entrances. Then picked the hives up and carried them outside to their stand, pulled the paper away, and the trick was done. No fuss, no excited bees, no loss, no stinging. The night was cool and moonlight, and the bees scarcely knew they were transferred. Next morning we looked them over at 7 o'clock with the early east sun shining into all the entrances. Everything was quiet and An old wing was then procured and while Mr. S. lifted up the hive, the writer brushed every bottom board The bees housecleaning done while you could say "Jack Robertson." Our good host then gave us an early morning drive to market, and we were back to business earlier than if we had been at home. Mr. S. has since reported that they have been doing splendidly, gathering pollen every day. Now, these bees must remain during April and May naked and bare on their summer stands, enduring all the cold and wet weather that may come. What an advantage it would be to them to be in packing cases dry and warm! What an aid it would be to early brood rearing! Here is the one weak spot in cellar wintering in our climate. Otherwise the wintering and replacing on their summer stands was most successful. We hope to have them packed outside next winter.

* * *

In reference to the subject of the weight of honey pails we are pleased to give our readers the opinion of Editor Hutchinson, of The Bee-Keepers' Preview:

"The first year that we produced extracted honey, in large quantities, we weighed in the 60-pound tin cans, putting in about 58 pounds of honey. We supposed that was the usual practice; but we received so many complaints, that the time spent in correspondence in trying to straighten out matters was worth about as much as we had gained. Since then we have put in 60 pounds of honey. I think it really makes little difference which practice is followed. In any event the producer must get his pay for the package. If he weighs it in he gets his pay for it. If he puts in a certain number of pounds net weight, then he must charge more per pound for the contents. Which practice shall prevail depends somewhat upon circumstances. I doubt if any product is sold in large quantities, at wholesale, and the package weighed in. No dealer in honey would buy a barrel of honey, and weigh in and pay for 50 pounds of barrel. The same way with a barrel of sugar, lard, etc. But when it comes to putting up these commodities for the retail trade, I think the usual practice is to weigh in the package. Take the breakfast foods for instance, I believe the packages are weighed in. The packages must be paid for, and it is likely that this practice secures the object with the least friction. Is is not a question of honesty or dishonesty, unless there is an attempt to lead the purchaser to believe that he is getting net weight, when it is gross. It is largely a matter of what is the usual practice; but it ought to be made as uniform as possible. If it is understood that honey by wholesale is to be net weight, and retail packages are to be weighed in, it might simplify matters somewhat.

CHALMERS' OBSERVATIONS.

Hibernating.

It is an old and partly true saying that "people become like those they live amongst": and, don't you think, Mr. Editor that such is the case with this correspondent, seeing his pen has been silent for considerable time? Well, like the bees, I have been spending the winter in quiet, but got partly wakened up on March 5th, when an ideal bee-day struck us, which allowed the bees their first 1910 flight, and a grand day it was for that very important occasion; but let me tell you that when the March number of C. B. J. arrived, I got completely aroused from my slumbers when I read that contribution from Mr. Orel Hershiser on "Making and Clarifying Beeswax."

Beeswax.

I was delighted to see and read that article written from Kenmore, N. Y., by Orel L. Hersniser in March Canadian Bee Journal. I fancy I know considerable about rendering wax, but know that I don't know it all, and now since we are favored with some of Mr. Hershiser's views on this vexed question, I am in hopes that we will "ken" more about it before we get through with this man from Kenmore.

I am, as he says in need of and seeking for information on this important subject." Some points we agree on whilst on others we differ, the greatest point of difference being in the efficacy of steam or hot water as applied in extracting the wax from the slumgum. Mr. H. says on page 75, first column about half way down. "It seems to be almost universally conceded now that the steam press, when economically operated, will leave in the slumgum a large percentage of wax that is easily obtainable with the hot water press," etc. I readily admit that all the wax cannot le got out of the slumgum by the use of 'team and pressure, for I can

detect small specks therein, but I would not be afraid to exchange slumgum with Mr. Hershiser after being treated by each of our pet systems and undertake to take as much wax out of his as he would out of mine. Now, don't forget that I am admitting that there is still wax left after my process so much so that the slumgum makes fairly good fuel, and, yet, I take fully 50 per cent in weight out of a given quantity of old comb.

We must not condemn the cold press from the fact that it has been a stepping stone from 10 press at all to where we are now. Some 12 years ago I called on Mr. F. A. Gemmil (then of Stratford), to get advice about a press, and he very kindly gave me all the information he saw fit; the consequence was I went home and constructed a press and soon had it at work in the kitchen. The box into which the pressed wax was to drop and be led into a container, was only about 4 inches deep, consequently when the press had three or four layers of cheeses of slumgum in for pressing, some of them were considerably above said box, and just fancy as the pressure would be increased from time to time there was "trouble in the camp" caused through the wax cooling on the canvas which contained the slumgum, then little apertures would be forced open and what happened? Well the melted wax would shoot here and there all over the room as if squired from as many syringes. This I saw could be remedied by using a deeper box, but a deeper box wouldn't prevent the wax from cooling on the canvas, so I set too in the winter of 1905-6 to construct a box in which to use either steam or hot water while pressing; when working it out I had occasion to write Mr. G. A. Deadman, of Brussels, Ont., and incidentally told him that was getting up a wax press. In reply Mr. D. advised me to "go slow as there was a new press coming out This I afterwards learned was the Hershiser press. I made Mr. Wm. Mc-

Evoy a visit that wir and he was just hon Convention which ha cago, and at which I paper on "wax exti their faults," in wh water system of sepa the slumgum. caught the idea corr that when the pr there was a contriv stir up the substance understand now whe shiser's writings on it pends on the hot wa again soaking the sly leases the pressure. is all in Mr. P's. e agine that slumgum is once having a little 1

As stated above I h ed in which either stee be used, and do admit are, as yet, to my can, however, make with steam.

My press 's probab be put on the market, and its workings and shiser will tell us mon ture C. B. J. how he

To begin with I p power boiler a: a cost ate steam for render hives, frames, etc., wl ent; could heat water in spring if necessary peace "brose."

From said boiler pip five different points. keepers I don't boil my steam throughout in et I have a large tin box and 29 inches deep, in four racks. Those racout of the heaviest tin, 20 inches square with high, said railing formi

erein, but I would ange slumgum with ing treated by each I undertake to take as he would out of rget that I am adstill wax left after that the slumgum I, and, yet, I take eight out of a given

mn the cold press as been a stepping t all to where we ars ago I called on hen of Stratford), press, and he very information he saw s I went home and d soon had it at 'he box into which o drop and be led nly about 4 inches en the press had cheeses of slumme of them were l box, and just rould be increased e was "trouble in igh the wax coolich contained the pertures would be happened? Well shoot here and as if squired from s I saw could be eper box, but a prevent the wax as, so I set too in construct a box eam or hot water working it out I Ir. G. A. Deadand incidentally etting up a wax . advised me to new press coming learned was the e Mr. Wm. McEvoy a visit that winter, Christmas week, and he was just home from the National Convention which had been held in Chicago, and at which Mr. Hershiser gave a paper on "wax extracting methods and their faults," in which he gave his hot water system of separating the wax from the slumgum. Mr. McEvoy hadn't caught the idea correctly as he told me that when the press was slackened there was a contrivance he thought to stir up the substance being pressed, but I understand now when I see Mr. Hershiser's writings on it that he merely depends on the hot water rushing in and again soaking the slumgum when he releases the pressure. This I am afraid is all in Mr. P's. eye, as I cannot imagine that slumgum is of that nature after once having a little pressure on it.

As stated above I had a press constructed in which either steam or hot water can be used, and 32 admit that neither system are, as yet, 10 my mind, complete. I can, however, make the greatest success with steam.

My press is probably too expensive to be put on the market, but will describe it and its workings and I hope Mr. Hershiser will tell us more fully in some future C. B. J. how he operates his.

To begin with I purchased a 2-horse power boiler a: a cost of \$15.00 to generate steam for rendering wax, steaming hives, frames, etc., when deemed expedient; could heat water too for the bees in spring if necessary, and also make peace "brose."

From said boiler pipes are branched to five different points. Unlike other beekeepers I don't boil my old comb, but use steam throughout in extracting the wax. I have a large tin box, 21 inches square and 29 inches deep, in which are placed four racks. Those racks are constructed out of the heaviest tin, the bottoms being 20 inches square with a railing 7 inches high, said railing forming a box 19 inches

square. On 'he bottom of this rack there are five strips of wood 1/2 inch square by 181/2 inches long, evenly spaced and across them the whole bottom covered with strips of similar dimensions, nailed on to the five botom ones, say 3/8 of an inch apart. This is to allow a free access of steam all around the wax or comb being This, of course, wants to be melted. nailed together somewhere else than on the tin, for fear of abusing the bottom When this section of strips is placed on bottom of rack there is a coarse canvas spread over and tucked down in nicely to receive all the chopped up comb that it will hold. If there is sufficient material (which means 75 or 80 lbs), all four are filled; the first one is placed in steam box on these strips of wood 1/2 inch thick, any width, and say 19 inches long; the second, third and fourth set on the one below. It is well to pour about two quarts of boiling water down on inside edge of steam box to fill up the bottom a little so that the wax will run out as soon as melted. The box is now covered with a double canvas, and a tin lid, which is weighted a little to keep it down and prevent as much as possible the escape of steam. I might just say that the outlet is merely a tin tabe about one inch in diameter, and in this there is a wooden plug used with a groove on the underside to allow the wax to escape. When the container is full and being replaced this plug is taken out and a round plug used instead to old the melted wax until an empty container is placed. The steam may or may not be shut off during the change, just as the operator sees fit. The recepticle into which the wax runs sits in a round tin, into which steam is admitted to keep the wax melted until the vessel is full enough for replacing, but before removing the steam must be shut off or your fingers wil! get scalded.

The steaming of this old comb goes on for some time when the steam is shut off,

the cover of steaming box removed and the stuff in each rack stirred up a little, when it is again covered up and set to When we consider it steamed steam. enough it is put to press; a press arranged about the same as the Hatch-Gemmil press, but in a tin box about 16 inches square and its depth as great as its width. In this either steam or hot water or both can be used to keep the mass warm. The interior is arranged by placing a series of wooden strips in the bottom (a la Gemmil), take the canvas containing the steamed slumgum by the four corners, lift from the rack in which it was steamed and place in the strips on bottom of press box, fold the canvas nicely over slumgum, then place in this a heavy plate of tin 14 inches square to run the wax from the cheese above off the one below; then lay a section of strips on this tin, bring on your next canvas of slumgum, and so on until all four are placed when it is covered with a fairly well fitted follower to confine the stean; steam is then admitted and the mass put to press. The pressure, as Mr. Hershiser advises, must be brought on gradually. Have never tried intermittent pressing, only when using hot water, but it might help some as steam penetrates where hot water won't.

I use heavy springs, but unlike Mr H. they are used above instead of below; got the idea through having used springs in pressing dairy cheese.

Now, we have tried boiling water in pressing slumgum, but cannot make a success of it, and the steaming arrangement is not all I would like it to be; but we have no danger of the melting wax boiling over on the stove; we have no dirty bailing of the melted comb from the boiler into a strainer; we have no great body of water to make provision for, the condensed steam making just about the necessary amount. We have tried hot water with a breath of steam, keeping it bubbling, but the wax got scorched. Our

wax is strained through the canvas it is melted in, as the steaming goes on. Both steam and press incline forward, so that the wax will flow to the front.

Mr. Hershiaer says in his article, page 77, first column, that "best results are obtained by cooling the wax in a deep vessel." I differ with Mr. H. on that point; as yet I have found nothing better for caking wax than what we calling "shilling crocks" and each cake should run from four to six pounds. The wax frees itself of the crocks every time, which it won't do in tin pails, and makes beautiful solid cakes.

Mr. John Newton, of Thamesford, has bought wax from me, has also made comb foundation for me from my own wax, and I would like him to tell us in the May C. B. J. how he finds my wax in comparison with others.

I have rendered both slumgum and old comb for Mr. G. A. Deadman, of Brussels, and would like him to tell the readers of the C. B. J. whether he thinks we can produce yellow wax from slumgum and old comb or not, and whether he considers there is much wax left in the slumgum after we are through with it. By the way it was Mr Deadman who had the honor of turning on the first steam on this press four years past in February.

Mr. Hershiser says, page 73: "Some say, don't have dirty wax that needs the use of acids." I am one of those who say that Mr. H I'll take any old comb or any old slumgum and produce fine yellow wax that needs no further cleaning; merely render it by the above system. Of course you know that bees themselves cannot produce as white wax from dark honey as from light.

One great annoyance to me, and something I cannot understand is in rendering it the second time, that some of the cakes have a spongy wax on the bottom. I suppose it is wax abused by steaming as in rendering the second to five pounds on the that cannot be considered of sediment from that (one melting). Howevery and get alore with special straining, when melted, as the cakes artom with the one rendered.

In caking, the wax lowed to get to cold sediment off as it car easier and better if the

We never find anyth need skimming off; quite a few air bubbl we blow to the side, to the crock, and this clean, smoothe surface any scum or froth shotop of the cake, scrape way as scraping off the all O. K.

Hoping Mr Hershise will be the means of of the very best ideas Poole, April 8th, 191

HIVE CO'

Enough has been we ject of covers to fill have no doubt, and more may be writen be animity of opinion pre those who are sufficient mental nature to lead makes for a short while to a good cover, the for by way of encouragements.

It may be well in the sider what are the user. To answer this in an amight say, "To keep snow in bad weather," does not make up a ful which we may properly

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te to me, and sometand is in rendering at some of the cakes the bottom. I supl by steaming as in rendering the second time I lose from two to five pounds on the 100 pounds. Yet, that cannot be considered a great amount of sediment from that quantity of wax (one melting). However, I am going to try and get alor, without re-rendering by special straining, when the wax is newly melted, as the cakes are solider at the bottom with the one rendering.

In caking, the wax should not be allowed to get the cold before scraping the sediment off as it can be done quicker, easier and better if thus attended to.

We never fin I anything on our wax to need skimming off; there is generally quite a few air bubbles or froth, which we blow to the side, when they adhere to the crock, and this gives us a nice, clean, smoothe surface on the wax. If any scum or froth should harden on the top of the cake, scrape it off in the same way as scraping off the sediment and it is all O. K.

Hoping Mr Hershiser's valuable letter will be the means of bringing out some of the very best ideas on wax rendering. Poole, April 8th, 1910.

HIVE COVERS.

Indexed R. B. Ross, Jr.

Enough has been written on the subject of covers to fill many volumes, I have no doubt, and possibly as much more may be writen before any real unanimity of opinion prevails. But that those who are sufficiently of an experimental nature to leave the standard makes for a short while may give a trial to a good cover, the following is written by way of encouragement.

It may be well in the first place to consider what are the uses of a hive cover. To answer this in an off-hand way, one might say, "To keep out the rain and snow in bad weather," but merely this does not make up a full list of the work which we may properly expect from a

good hive covers. We might easily add by way of enlargement, that a cover should at all times be robber-proof, heat-retaining, sun-proof and wind-proof. Attempts have been made to meet all these requirements, but so far I have found most of the makes now on the market lacking in one or more of the essentials agreed upon.

Of course the style of the cover is somewhat dependent upon the tastes of the bee-keeper, for those who desire a clear bee-space over the frames need to look for characteristics which those who use some form of frame covering or quilt do not. For my part I prefer to use a quilt.

The flat cover so common in use has the undesirable habit of twisting more than one could wish. Heavy cleats may overcome this to a great extent, but every time the hive tool is inserted to pry it loose there is a strain on the material which tends to help twisting, and this in time gives robbers a starting point of which they are not slow to avail themselves.

The ventilated cover is better, because one layer of boards tends to offset the warping and twisting of the other, but to both the foregoing styles of cover I find the following objections:

1. All covers which are designed so as to have nothing but a bee-space between them and the frame tops are securely fastened to the hives with bee-glue. Every time a hive is examined this fastening must be broken. This is a matter of comparatively little importance during the summer, but spring and fall have to be considered in this connection as well, and while I admit there is not much need of breaking the sealing in the cooler seasons, there always will be more or less of this occur. This, therefore, is one of the objections to the flat board cover without quilt.

2. The second objection, and to my mind a serious one, is the inability to use

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a protective covering of newspapers to conserve the heat in spring. Papers can be used, but they become soaking wet during the first rainstorm that follows their putting on. In using the papers I fold them so that they come down the sides of the hive for a few inches, forming a paper cap well calculated to retain the heat as long as they are kept dry. The flat board cover can not do this.

Then a cover should be sun-proof. In this respect the double ventilated cover is all right, and were it not for the short-comings which it has in common with the board covers, it is the one I would adopt.

Wind-proof was the last essential enumerated in the foregoing list, and by it I mean not only proof against the passage of draughts of air either inwards or outwards, but also proof against the lifting power of the wind. So many people have to load their hive covers down with bricks, stones, etc., or they never know what degree of disorder will greet their eyes on their next visit to the apiary!

Now, of all covers with which I have had experience none of them seems to cffer as many advantages, with as few shortcomings, as the stallow telescone cover; one which slips loosely down over the hive for a distance of about four inches. It can be used either with or without quilts or inner board covers. It is robber proof as its top always remains flat. It is wind-proof and sun-proof.

No shade board is necessary with this cover, for by simply raising the back end and pushing it forward till it rests on the back edge of the hive, an air space is provided, which gives splendid protection against the sun, but, of course, this will expose the frame tops to robbers unless a quilt or inner cover is used. Strange to say the cover seems to be no more liable to blow off from this position than when resting in its normal place.

The greatest advantage, however, of this cover comes from its telescoping sides and ends when using protective newspapers in the spring. As indicated previously, I have a quilt directly on tile frames. Over this, after removing the bees from the cellar, I fold substantial covering of newspapers, and the loose fitting telescope cover slips down over all, giving the protection exactly where needed and in such a way that all remains dry. Tar-paper and building-paper hive wrappings have been discarded by me altogether in favor of newspapers used as above, with infinitely more satisfaction, and I believe profit.

I make my covers of half-inch pine, wide and long enough to allow ample space at ends and sides of hive. The cover slips down three or four inches. Roofing paper makes it water-tight.

It is a small matter to try two or three such covers for a season, and if they are not suited to your particular needs no harm has been done. If, on the other hand, they work as successfully with you as they do with me, the object of this article will have been attained.

Westmount, Que., 15th March, 1910.

andexed A FEW POINTERS.

W. T. Davis, Stratford.

In my previous communication, I made some rather unorthodox statements. First, as to the shallow extracting supers which we use. Now for the why. In the first place I am of the opinion that the bees work in them more readily, cap the honey better, and (although I think I am about as strong as most average-sized men), I cannot see the sense of lifting such heavy weights, as is sometimes necessary with deep supers. I can lift off two at a time. True, the difference in cost is very trifling; the work is just about the same, and the lumber required is not so very much different. Perhaps, if I had to buy my supplies I might think differently. As it is I enjoy the job in the winter of making up supers, escape boards, feeders, (and I think I

have one of the best feed pails spoiled either. Ag that the bottom of the l place to ventilate the cold to ventilate from the el ways found that a piece about 2 x 3/" at each col of the upper super gives k than a large space at th sides there is no need for or flying machine in ever the bees to reach the com air out and the fresh will alright, for the small sp will act as a vacuum ev same rule applies very l wintering. A frame or should require no foul through any room, (solid

There has been quite a sion over shade for bees the open space free from tops on hives gives an air bees. Carry an old knife at in your pocket and pry when bees begin to clust we began keeping bees we the house, under an app did alright at first, but lat as the trees got larger. moved the whole of them and in front of apple and p and three years ago those apple trees were all dead but in front of plums al Can any one tell why this The plum trees are as larg trees. Our hives stand in east and west, and get the and late afternoon sun witl during the day-an ideal was some golden rod and clover, and some buckwhea the first time; but it did us saw the bees working at it just before a rain. Alsike i ture. Last year we had clover, more than usual.

April, 1910

As indicated preilt directly on tile ofter removing the I fold substantial, and the loose fitlips down over all, exactly where needy that all remains building-paper hive liscarded by me allewspapers used as more satisfaction,

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5th March, 1910.

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Stratford. nunication, I made statements. First, cting supers which why. In the first nion that the bees readily, cap the though I think I most average-sized e sense of lifting as is sometimes upers. I can lift rue, the difference ; the work is just e lumber required ifferent. Perhaps, supplies I might it is I enjoy the naking up supers, , (and I think I have one of the best feeders), and no tin pails spoiled either. Again I fail to see that the bottom of the hive is the right place to ventilate the colony. I have tried to ventilate from the entrance, but always found that a piece of fruit basket about 2 x 3/" at each corner at the back of the upper super gives better ventilation than a large space at the entrance; besides there is no need for a step ladder or flying machine in every hive to enable the bees to reach the combs. Let the foul air out and the fresh will find its way in alright, for the small space at the top will act as a vacuum every time. The same rule applies very largely to cellar wintering. A frame or veneered house should require no foul air pipes, up through any room, (solid brick is differ-

There has been quite a lot of discussion over shade for bees, but give me the open space free from shade. Gothic tops on hives gives an air space over the bees. Carry an old knife and a few splirts in your pocket and pry up top supers when bees begin to cluster out. When we began keeping bees we put them near the house, under an apple tree. They did alright at first, but later not so well, as the trees got larger. Finally we moved the whole of them further away and in front of apple and plum trees. Two and three years ago those in front of the apple trees were all dead in the spring, but in front of plums all were strong. Can any one tell why this happened so. The plum trees are as large as the apple trees. Our hives stand in rows running east and west, and get the early morning and late afternoon sun with partial shade during the day-an ideal stand. There was some golden rod and a little sweet clover, and some buckwheat last year for the first time; but it did us no good, only saw the bees working at it one morning just before a rain. Alsike is our bee pasture. Last year we had some white clover, more than usual. We had lots

of snow until last week. The bees were out on March 5th. I do not move the snow from the fronts of hives. I did this in 1906, and the weather first came bright and warm, and then suddenly turned to freezing, followed by a heavy rain. The result was a basin of water six inches deep, and a loss of nine colonies out of fourteen. The snow was seven feet deep in some places. In conclusion amateurs should watch Mr. Byer's and Mr. Mc-Evoy's articles. Their advice is worth a good deal.

Later.

It is March 15 again, and I have just been out shovelling snow up around my bee clamps to prevent the bees from flying out. The snow is still about a foot deep in my bee yard, although most of the snow is gone in the fields. Now, if my memory serves me right, about twenty-five years ago, our good friend, A. I. Root claimed that only the bees that would die, or were about to die, would fly out when the weather was too cold, but I have always practiced shovelling up the snow to keep them in until the snow was about all gone. Then on a fine morning let them all fly at once.

March 19—The weather has suddenly become warm. Most all the snow gone. The day has been fine and this p. m. I quietly shovelled away all the snow from in front of the clamps and laid old boards where any remaining snow lay, and where water stood. Straw is splendid where boards are not to hand.

During the night of March 19, we had a heavy thunderstorm and sharp lightning; March 20th, foggy, but cleared up fine; bees had a splendid fly. Seventy of my seventy-two flew fine; very little spotting, bees clean and strong.

Our bees have been flying every day since the 20th.

Friday, 25th, fine warm day, bees taking in pollen. I examined about thirty colonies, clipping any queens not clipped; found only one queen missing.

March 29—A real summer day, 80 in the shade; bees working hard on soft maple; many cf the trees in full bloom. Prospects—are splendid with brood hatching in many of the hives and very strong.

During the next ten days all queens (where clipping is practiced) should be clipped, as it is so much easier finding the queen before the young bees begin to hatch freely. As bees are booming now and the brood spread out over the frames, care should be taken not to let our bees suffer for lack of food. Some of the top packing may be taken off now. Weak colonies can be helped, with frames of brood from the strongest colonies, so that by the first of May all colonies will be in very strong condition. I never take my bees out of the clamps until fruit bloom. Will give my summer treatment later on.

[We cannot agree with you in shovelling the snow up to the entrances. We practice the very opposite. We take care to keep the snow away from the entrances in order that the bees may obtain air. It is true that the air will pass through the dry light snow, but if you should have a thaw or sleet or rain, followed by frost, the hard crust would entirely shut off the air to the bees and they would stand in great danger of being smothered. Possibly this will account for some of your losses.—Ed.]

MIDDLESEX BEEKEEPERS MEET.

The spring meeting of the Middlesex Beekeepers' Association will be held in the City Hall, London, Ontario, on Saturday, May 7, commencing at 10 o'clock. Mr. Pettit of the Ontario Agricultural College will be present to take up the subject of "Co-operative Experiments in Bee-Keeping." Other prominent speakers are to take part.

E. T. Bainard, Ambrose Dowswell, Secretary President.

NUCLEI FOR QUEEN REARING.

Indexed

R. S. A.

Would like to know through your Bee Journal, when to make nuclei to raise queens; and if I will have to put in a queen along with the frames? Also will I have to put some bees in along with the new queens when they come out to feed them. It is needless to say I am an amateur. You will greatly oblige by answering these questions.

Before answering your questions with regard to artificial queen rearing it might be as well to state that this branch of bee-keeping should only be attempted after one has become thoroughly familiar with the way that bees raise their queens when left to themselves. Your success will depend upcr the fidelity with which you duplicate natural conditions. The word artificial must be taken to mean that you are forcing the bees to raise queens in quantities, and at times to suit your convenience, and not that you are changing the conditions of the colony under which they will raise the best of queens. .

- 1. The time to make up nuclei for mating the queens is after the artificially raised cells are within 24 hours of hatching. Queens are not raised in nuclei, they are only hatched out and cared for in them during the interval between the time they are hatched and when they commence to lay.
- 2. The queen cell is put into a nucleus made up of brood and bees taken from full colonies and when the young queen hatches out these bees care for her and give her the warmth and attention necessary to her proper development.

If you wish to go thoroughly into the subject of artificial queen-rearing, would advise you to get "Doolittle's Scientific Queen Rearing," which is a standard authority on rearing queens.—Ed.]

PROSPECTS IN

An Englishman signi A.," Victoria, B.C., w ish Bee Journal (7766), has the following to a experiences in Canada, thereof:

"I have had frequen the Old Country re p since my letter appeare and if interested reade their queries I will ende the information they however, impress upon. man is doing fairly well try, let him stop at hor the fairy tales you read lets, or take them with salt. Take, for instance the villa farmstead; if y to the resemblance of a be nearer the truth. Quebec to Victoria, acr never saw a house tha decent woman to reside when I reached a town deserved the name. My keep out of British Coli as large as England, Denmark put together, by 400 miles, and a p than 400,000. In this v cannot get land (I mear 160 acres for the settler hands of the capitalists the green horn to come him. The country seems these "real estate men called out here, who c not to develop it, but fo to grow suddenly rich a expense. Readers may swer another question: \ here? My answer is thi set at my home in Engla let the womankind keep into Canada, with the gr to succeed or die in the a been harvester, laborer watchman, caretaker, g and watchmaker, all in which shows the utter u I have done well bor. good many on the road everyone who can turn many different occupatio sent \$180 home at Ch

UEEN REARING.

S. A.

now through your Bee make nuclei to raise will have to put in a he frames? Also will e bees in along with hen they come out to eedless to say I am an greatly oblige by antions.

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PROSPECTS IN CANADA.

An Englishman signing himself "E. A.," Victoria, B.C., writing to the British Bee Journal (7766), March 17th, 1910, has the following to say regarding his experiences in Canada, and his opinions thereof:

"I have had frequent inquiries from the Old Country re prospects out here since my letter appeared in the B.B.J., and if interested readers will send you their queries I will endeavor to give them the information they seek. I would, however, impress upon all this fact: if a man is doing fairly well in the Old Country, let him stop at home, and disregard the fairy tales you read of in the pamphlets, or take them with a big bunch of salt. Take, for instance, the picture of the villa farmstead; if you bring it down to the resemblance of a stable, you will be nearer the truth. In my run from Quebec to Victoria, across the prairie, I never saw a house that I would ask a decent woman to reside in; it was only when I reached a town that the houses deserved the name. My next advice is: keep out of British Columbia-a country as large as England, Switzerland and Denmark put together, with an area 700 by 400 miles, and a population of less than 400,000. In this vast territory you cannot get land (I mean for homesteads, 160 acres for the settler), as it is in the hands of the capitalists, who wait for the green horn to come along to fleece him. The country seems to over-run with these "real estate men," as they are called out here, who come to Canada, not to develop it, but for a gamble, and to grow suddenly rich at somebody else's expense. Readers may wish me to answer another question: What am I doing here? My answer is this: I was no asset at my home in England. I scorned to let the womankind keep me, so I plunged into Canada, with the grim determination to succeed or die in the attempt. I have been harvester, laborer, joiner, cook, watchman, caretaker, gardener, farmer and watchmaker, all in nine months, which shows the utter uncertainty of labor. I have done well, and passed a good many on the road, but it is not everyone who can turn his hand to as many different occupations as I can. I sent \$180 home at Christmas, earned since August, and, though I am out of work just now, I may be in to-morrow. So much for myself. With regard to the bee industry in Canada, it is really in embryo, like the country's fruit, but growing successfully. Ontario is the best province; plenty of moisture and heat, and everything that makes fruit a success. Two days before I received the letter you forwarded from a correspondent in Scotland, I was talking with an old Ontario bee-1 an and fruit grower, and he said the results there far surpassed anything this way for both honey and fruit. And again let me caution intending emigrants: Do not come out to run the bee business -use it as a side line; and try to get a situation to come out to, or you may depend on having a hard struggle for ex-

It is the opinion of just such "no accounts at home," who do much to slander a new country like Canada. British Columbia and Western Canada are to-day undoubtedly the greatest spots on the earth for home-seekers to turn to. A man who "was no asset at his home in England," and who "scorned to let the womankind keep him," did well to come to Canada, and particularly to British Columbia. He will get some of the soft spots worn off of him, and will one day wake up to find himself a man-that is if the feminine disintregation has not progressed too far. Are all the Englishmen at home kept by their womenkind? Is a failure there likely to be a brilliant. success here? There is unlimited possibilities in Canada 'n apiculture, agriculture and fruit growing for the man who has not been enervated by the "social distinctions" of the old land; who has brains and courage to work, and the ability to adjust himself to a new environment. "In my run from Quebec to Victoria, across. the prairie, I never saw a house that I could ask a decent woman to reside in." The indiscreet use of the word "decent" suggests a line of thought that may account for his unhappy emigration from his womankind where he was "no asset."

April, 1910

Men born in log houses in Canada have been heard in parliament and in the British courts before British judges, and have stood among kings. The real estate agent and land gambler is, of course, to be found everywhere. But these men are doing great work in assisting and promoting settlement and placing upon fertile farms those who have been practically kicked to the sea shore by a group of aristocratic landlords, who must have their 'unting parks, don't-yer-know.—Ed.



During the latter part of the hongy season of 1910 it was my esteemed privilege to visit Mr. Chalmers and take a photo of his apiary. A strong gale was blowing from the east, which made it difficult to obtain a good view.

Mr. Chalmers will be easily recognized in apiarian uniform, which he recommends for working at the bees. The lady is his daughter, Miss Chalmers.

It will be superfluous for me to in roduce Mr. Chalmers to Canadian beekeepers as an apiarist of long and valuable experience. As a naturalist he is familiar with the life and habits of the honey bee.

This scientifice knowledge in connection with his own actual perusal of modern methods in honey production and his courteous manner to entertain and share the benefits of his researches with the bee-keeping fraternity, make a visit to his apiary both pleasant and profitable.

J. W. HONDERICH.

Jacob Hab

HONEY PA

To my surprise I find almost alone with my o pails. I see, so far, eve from, is in favor of gre S) much the better, as it matter to get a standar there is a large majorit agree fully with Mr. B K A. should not rest b weight of honey pail is would know a little b we are. I notice in Gern associations have their sta We surely, can have the had the idea that the g was used so extensively strange that honey is n weight; syrup, for inst notice is net weight in | those pails also cost mon me the idea prevails the always be sold, with or the same price; sure en done with the gross we comes in general use. standard pail is adopted also, even if it does not my wishes. We can not own way, especially in an

In marketing a certain rules and regulations will seller and buyer. It is no sary for the association of tee, to dictate as to who ticular sized pail, as Mr. B J., p. 7; but it can | gested, the same as our H mittee suggests the hone believe most bee-keepers v suggestion. As to the e honesty"-mentioned in m January number, certain dishonesty in using the gr in the proper way, so i knows what he buys. 1 every bee-keeper knows v

assisting and promotplacing upon fertile have been practically ore by a group of arwho must have their t-yer-know.-Ed.



was my esteemed ry. A strong gale 1 a good view.

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s to Canadian beea naturalist he is

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HONDERICH.

HONEY PAILS.

Jacob Haberer.

To my surprise I find that I am left almost alone with my opinion on honey pails. I see, so far, every one we heard from, is in favor of gross weight pails. S) much the better, as it will be an easier matter to get a standard honey pail, if there is a large majority on one side. I agree fully with Mr. Brune-the O. B. K A. should not rest before a standard weight of honey pail is established. We would know a little beter then where we are. I notice in German journals too associations have their standard packages. We surely, can have them also! I never had the idea that the gross weight pail was used so extensively. It is a little strange that honey is mostly sold gross weight; syrup, for instance, I always notice is net weight in pails. I suppose those pails also cost money. It seems to me the idea prevails that honey should always be sold, with or without pails, at the same price; sure enough it can le done with the gross weight pail if it comes in general use. As soon as a standard pail is adopted, I may use it also, even if it does not correspond with my wishes. We can not always have our own way, especially in an association.

In marketing a certain article, uniform rules and regulations will be beneficial to seller and buyer. It is not exactly necessary for the association or their committee, to dictate as to who is to use a particular sized pail, as Mr. Byer says, C B J., p. 7; but it can be at least suggested, the same as our Honey Crop committee suggests the honey price, and I believe most bee-keepers would follow the suggestion. As to the expression-"dishonesty"-mentioned in my article in 'he January number, certainly there is no dishonesty in using the gross weight pail in the proper way, so that every one knows what he buys. But I am sure every bee-keeper knows very well under

what circumstances dishonesty could be in it should any one ever have had such a motive. I will with pleasure withdraw the expression.

I would be also very much pleased to hear through our Journal how near honey was sold to the suggested price of the Crop committee. Was it not sold lower than suggested? I am informed, it was mostly sold for 10c. a pound in a retail way in my surrounding country. My price was: For a single pail of clover honey, \$1.25; 2 pails, \$1.20 each; larger lots, \$1.15 each. In 60 lb. cans, 11 cents. It customers furnished their own pails, clover, 11 cents, basswood, 10c. Basswood was not pure this year and only a little of it. I thought it was more thistle than basswood, and there were some cells of a darker honey-just enough to discolor it a little. The flavor I liked better than pure basswood. Of comb honey I only raised about 500 lbs., for home supply. Sold, No. 1, \$1.65-75; No. 2, \$1.55. A little buckwheat comb honey was not in good demand at \$1.00 per dozen. My crop was 6,500 lbs. of light honey; sold it above prices, mostly in 60 lb. cans, and a few cases of pails. Some of it was for the west, and some to eastern points; Four thousand pounds extracted Buckwheat honey was sold at 6 cents in one lot in Montreal. What is really considered under wholesale? In selling a few hundred pounds to a party would you call that wholesale, too? I must say I am a poor business man, therefore, information or discussion would be appreci-

Our bees had a good flight on Saturday, March 5th. The sun was so bright and warm and the air calm, we decided to dig up the hives out of two or three feet of snow. A few days before we closed every hole in the snow as we saw some colonies had the desire for flight. Every colony of 127 was flying. Three hives showed a little dysentery. One colony blocked up with dead bees was

found to have two combs with brood with quite a lot of young bees, and not too much honey. Seldom had we so few bees laying on the snow after the first flight. Eighty colonies in the cellar are so far prety quiet yet; thirty of them are in a cellar very dry, and sometimes a little too warm. It is adjoining the furnace cellar, but bees always winter well in it. Fifty are in a good cellar under an unoccupied house. The cellar is partitioned off in cold weather, a little fire kept in the empty part, and in the room above: door up to the room, nearly every day open for a while; temperature from 40 to 42-seldom higher; will see how they come out. Comparatively lass dead bees on the floor than in the warmer cellar so far.

A good start for another blizzard today.

Zurich, March 7th, 1910.

HYMALAYAN HONEY BEES.

Indexed Experiments in Apiculture in Kashmir.

Dr. Burton N. Gates.

The Leipziger Bienen Zeitung recently quoted from the British Bee Journal, Vol. 37, pp. 365-6 an account by Dr. Earnest F. Neve, F.R.C.S., Kashmir, N. India.

Little is known of the status of beekeeping in this part of the world, yet an association for bee-keepers has recently been organized at Simla, with the Lieutenant-Governor of Punjab as president.

The author says that bees are very common, having secathem as high as 7,200 feet above the sea level. There seems to be at least three kinds of bees, a wild type and two domesticated varieties.

The villagers frequently keep bees in cylindrical earthen jars about 2 feet long and built into the house wall. The end on the outside of the house has the entrance to the hive, while the end on the inside of the house is fitted with a lid or

cover of earthenware held in place by clay. The care of the colonies is slight and consequently during severe winters, when the mercury falls as low as 0°F., the mortality is as high as 75%.

The natives have some knowledge of queens. They have a curious way of securing a restless queen by tying her with a thread which they pin to the comb.

Although sulphur is not used to secure the harvest in October, the colony is usually so much mutilated as to cause a heavy loss of bees.

"In hot weather when supplies were scarce I noticed drones, who often disport themselves outside the hive during the hotter part of the day, were sometimes very reluctantly admitted, and were even then treated as if they were strangers. being chased from the hive. During such weather a fall of rain, so far from stopping work, seemed to give it a stimulus, owing perhaps to the more rapid secretion of nectar in the flowers. I have been surprised to find how comparatively few varieties of flowers are resorted to by the bees. Of course, in spring the blossoming fruit trees and fields of flowering cruciferæ are crowded, and in summer mignonette, virginia creeper, hollyhocks, and balsams appeared to possess the greatest attraction; but, curiously enough, there were very few bees to be seen working on white clover. During the hot weather. when supplies are scarce, the bees are rather bad-tempered, and occasionally undeserved stings are sometimes meted out to an occasional observer who has been previously tolerated. In the evening, although the nive may be full, the inmates seem more gentle than in the heat of the day. The sting: appear to vary considerably in intensity. Some, even when delivered deeply and strongly, produce little swelling or pain; others, inflicted lightly and in passing, as it were, have produced great irritation. It is probable that in this and many other respects Kashmir bees are very like their English

relatives. It will be is whether the introduction alian queens will result try or whether their p succumb to the somewh fluence of climate and autumn droughts."

SPRING REPORT, DI

James Sto

This season is very have been used to for a in this district. Most their bees on the summer 25th of March, and gathering pollen nearly My experience of last put on summer stands A came in until the 25th. knew. As far as I can good order: less than 2 winter loss. Of course few losses from queenle unexpected causes, but are strong and healthy. with sufficient stores for clover has not been wir great extent, and should kind of weather, we m honey. Last year our son started June 25th. 15th. In this locality honey kept up until fro bees kept raising brood time to put the a away gave a large number o winter. I saw a few h two different cellars, an brood a couple of days a summer stands. Don't rather unusual?

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relatives. It will be interesting to see whether the introduction of English or Italian queens will result in greater industry or whether their progeny, too, will succumb to the somewhat enervating influence of climate and the summer and autumn droughts."

SPRING REPORT, DISTRICT NO. 5.

James Storer.

This season is very early to what we have been used to for a number of years in this district. Most bee-keepers put their bees on the summer stands about the 25th of March, and they have been gathering pollen nearly every day since. My experience of last year was: Bees put on summer stands April 6th, no pollen came in until the 25th, the latest I ever knew. As far as I can learn bees are in good order; less than 2% will cover the winter loss. Of course there may be a few losses from queenlessness, or other unexpected causes, but at present they are strong and healthy, and most of them with sufficient stores for some time. The clover has not been winter killed to any great extent, and should we get the right kind of weather, we may get a crop of honey. Last year our clover honey season started June 25th, and finished July 15th. In this locality the fall flow of honey kept up until frost came, and the bees kept raising brood till it was almost time to put the a away for winter. This gave a large number of young bees for winter. I saw a few hives opened from two different cellars, and they had sealed brood a couple of days after being put on summer stands. Don't you think this is rather unusual?

[It is unusual. The entire winter and spring has been unusual, and if de do not make unusual preparations for the coming season, we have a suspicion we will regret it. Thanks for your report. It was very thoughtful of you.—Ed.]

A PROTEST FROM BRITISH COL-UMBIA.

E. F. Robinson.

As a news item for B. C. readers of the Canadian Bee Journal, I may mention that our Department of Agriculture has appointed a Mr. Dundas Todd 'ecturer to our Farmers' Institute meetings. I have protested against the appointment on the grounds that Mr. Todd has not had sufficient practical experience to pose as an instructor.

All his writings to "Gleanings" have been on tools: "How to Sharpen a Saw," "How to Use the Hammer," 'How to Use the Plain," etc., etc., His only two papers on the Bee question have been to acknowlege two glaring failures-Glean ings, Jan. 15, page 53, on wintering; and, again Gleanings, Feb. 15, page 122, we find him worrying himself to death i.ecause he knows of no method to feed a pollen substitute on January 1, attributing his loss of matured bees to the lack of pollen. Certainly he needs posting, and when he tells the Editor of Canadian Bee Journal December, 1909, page 427, that all he knows of "practical management and control of bees" could be written on the back of a visiting card, he is nearing the truth.

I have been doing gratuitous pioneer work here for the last ten or twelve years, answering many of the enquiries made at the Department of Agriculture, visiting bee-keepers in trouble, and helping them out as best I could; producing, I believe, the largest quantity of honey in Vistoria district, and have certainly made the largest and most comprehensive exhibit ever seen in our city. As I was receiving so many enquiries from the Okanhagan country for information, I offered my services to the Government, but a few months engagement was not sufficient remuneration for me; if the office was permanent I offered to accept. In the mean time this 18 months Chicago stranger with silvery tongue, and free pen (late editor of a photographer's Journal), has posed as an expert of 30 years' experience and now goes forth as an expounder of modern, practical and commercial beekeeping. It is a conformation of the oid saying, slightly varied, that presumption rushes in where experience fears to tread. A few friends and self are busy raising (on hot beds) a few hard shelled nuts for our friend to crack.

Wishing the C.B.J. a successful year. 417 Young Street, Victoria, B. C. Mar 16.

NATIONAL ASSOCIATION.

N. E. France.

The membership enrollment to-day (March 26), is 3,700. The President's mark of 5,000 is fast coming in sight. Let the good work go on.

Information Bulletin No. 15 has just been mailed to members. This is of value only as each member uses it. To many it is wort a the due of several years.

The second edition of "Bee-keepers' Legal Rights" has just been mailed to the membership. It is a reference volume which ever, bee-keeper should have in his library. Paid-up members get a free copy. There are none for sale to outsiders.

The winter losses of bees are quite heavy in places. Some report 75% loss.

The present honey prospects are good except in southern California, where they have had no rain for nine weeks.

Each new member gets a copy of the Report free, as long as the supply lasts, which is getting low.

R. L. Tay'or, Chairan of the Board of Directors, has been having the grippe.

If each National member would work to get new members like our recent candidate for President (Thomas Chantry) has done, we would number 5,000 by the close of the honey harvest. Why not do this?

If our members who produce extracted honey will follow the advice given in Information Bulletin No. 15 there will be a great demand for honey with hopes of better prices next fall.

I hope by the time the members of the National get their honey ready for market this year to be able to have new patterns of honey labels for their special use.

On the evening of March 31 as 'he General Manager, N. E. France and his wife were mailing the last buggy load of Bee-Keepers' Legal Rights they met with serious injuries by another team running into their buggy up-setting it and causing a runaway.

[We trust all our Canadian readers will avail themselves of the opportunity of becoming members of the National (or International, as it should be called). We sincerely hope that Mr. and Mrs. France will experience no permanent injury from their mishap.—Ed].

SHORT COURSE IN BEEKEEPING AT THE MASSACHUSETTS AGRI-CULTURAL COLLEGE

Circulars are now being distributed for the two weeks' course in beekeeping which comes Ma, 25th to June 8th at the Massachusetts Agricultural College.

The practical field work and demonstrations in the handling of bees will be given by Dr. Burton N. Gates, of Washington, D. C

Crops for hone; bees will be treated by Or. William P. Brooks.

Bees, and Their Relation to the Pollenation of Plants, will be treated by Dr. George E. Stone.

The Origin and Evolution of the Honey Bee, by Henry T. Fernald.

Bee-keepers' Supplies, by Dr. James B. Paige

No tuition is charged in the course. Board and rooms can be secured at reasonable prices.

A circular and registration card can be secured by writing the Director of Short Courses, Amherst, Mass. WHAT I HAVE L

About the History and Na the Honey Bee, and He Possessed of the

John Ramse

I was born in the year Township of Eramosa, at the "Gore District," but part of the County of Well

In my early days, I occ few bees in straw hives, gums, from which no he cured, except by the crue the brimstone pit. Having heard, of the ancient superning them, such as in the death in the family of pumourning, etc., etc.; of luci all of which is pure non patent vendors wonderfuknowledge, or rather ignoring them.

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About that time I was a the "Gennessee Farmer," i notice of a book for sale, e teries of bee-keeping ex Quimby, of St. Johnsville, ordered, and got a copy of it proved a wonderful reve and I think that the world him, and to L. L. Langstra of the moveable frame; all be given to these two men they gave to the world, o history and management

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WHAT I HAVE LEARNED

About the History and Natural Habits of the Honey Bee, and How I Became Possessed of the Same.

John Ramsey.

I was born in the year, 1825, in the Township of Eramosa, at that time in the "Gore District," but now forming part of the County of Wellington.

In my early days, I occasionally saw a few bees in straw hives, and basswood gums, from which no honey was procured, except by the cruel operation of the brimstone pit. Having read, and also heard, of the ancient superstitions concerning them, such as in the event of the death in the family of putting them in mourning, etc., etc.; of luck, and so forth, all of which is pure nonsense; also of patent vendors wonderful amount of knowledge, or rather ignorance concerning them.

About the year, 1855 or 1856, I found a swarm of bees in a cedar tree in a swamp, which I cut down and removed home, about seven feet of which contained the bees and comb; they were pure blacks, and cast a swarm annually for screen years, I hived them in boxes.

About that time I was a subscriber of the "Gennessee Farmer," in which I saw notice of a book for sale, entitled, "Mysteries of bee-keeping explained," by Quimby, of St. Johnsville, New York. I ordered, and got a copy of the book, and it proved a wonderful revelation to me, and I think that the world is indebted to him, and to L. L. Langstrath's invention of the moveable frame; all hon me, should be given to these two men for the light they gave to the world, on the natural history and management of the honey bee.

I went to work and made a few of Quimby's square hives, and one of Langstroth's wide frames, and succeeded in getting some very nice comb honey. I had

difficulty in getting the bees to build their combs straight on the frames, as wax foundation was not yet known, i'ut when given to the world (by whom I do not know), the great problem of the management of the honey bee was solved. In 1863, a neighbor of mine, having had a few stocks on moveable frames, we ordered three Italian queens, which we received in good condition from Mr. Quimby; I got one of them, which was given to a colony of native blacks after removal of their queen; the colony in about five weeks afterwards were all fine Italians, and not a black bee to be seen. On the small piece of comb, on which my queen came, she had laid a few eggs, I inserted the piece of comb containing the eggs in an empty comb, which I gave to a new swarm, after removing their queen. from which they succeeded in raising a beautiful virgin queen, but, of course she was mated with a black drone, and ner progeny were hybrids, and splendid work-

In, or about the year 1880, two neighbors of mine conceived the idea of branching out, and making money out of their bees, and persuaded me to join them in their venture, which I did in a small way; after collecting together what colonies we owned, and buying others from neighbors, we had nearly two hundred stocks, which we located at a place named St. Helena, on the mountain, on the southwest side of Esquesing, adjoining Nassagaweya,, in the County of Halton.

A young man was hired, and employed to manage and care for them, and all went well, and prospered for three or four years, when all was lost by foul brood, the effects of which we were ignorant of; however, we sent for Mr. McEvoy too late, and consequently all were lost. Out of the wreck, we purchased half a dozen stocks of fine Italians, one of which fell to me as my share, which has prospered, and has kept me supplied with

bees for the past twenty years, with lots to spare, for those in need, as I never went into the business specially to make money. Having a farm of two hundred acres to attend to, about forty stocks was the limit in the best honey years, and my crop of honey averaged about one ton of extracted; I never did much in comb. In 1905 I attained my eightieth birthday, and concluded it was time to quit work of that kind; consequently I got two neighbors who had been trying to keep bees to take them on trial, and if a success, they were to pay what they were worth to them. They did very well tle first year, and I got paid accordingly; but they gradually failed under their management, and died out. I kept two light stocks which I did not think were worth giving away, and they have done well ever since, and kept us in honey and bees up to present time, and some to spare to neighbors.

I had four stocks last winter, 1908, which all came out excellent in the spring, and gave 480 lbs. of fine extracted honey, beside throwing two first swarms late in June, the other two did not swarm at all.

I will now endeavor to explain how ! succeeded in the management and care of bees:

In my early days, I erected a small bee-house for winter use, and it proved a failure; I next tried a couple of cellars with no better success, as the bees had to be removed too early in the spring. The first trouble was that they were demoralized and did not know their own home, consequently some of the colonies became over-stocked, while others were left in a weak state. Secondly, their natural instincts are to begin rearing young brood very early in spring, if they have plenty of honey and pollen; then the cold winds of April drive them into small clusters, and the brood is chilled and destroyed. Then comes the report of hundreds of stocks ruined by spring dwindling, which I consider one of the greatest evils in

profitable bee-keeping. I then concluded to try wintering them on their summer stands which has proved in my case very satisfactory. I made a case or outside cover for each hive as follows: say two feet wide by two feet six inches long; front end of box three feet five inches high; back end, three feet, to give safficient pitch for cover or roof, which is composed of a light frame to fit neatly over the outside of box, and covered with galvanized iron, or any other material that is waterproof; the bottom, inch lum. ber nailed on solid, while the top cover remains loose, as it can be removed or hung on hinges and turned to one side or front. The bottom of box inside is covered with a sheet of tar paper, on which are place two pieces of wood two inches square, and filled with chaff level with top of strips on which the hive je set. The bottom board is nailed on hive, and projects three inches in front, over which a bridge is placed for bee passage on a line with opening in front of box. The space between the hive and box is packed with wheat chaff or dry forest leaves level with top of hive, and left so summer and winter. I use the matting with which tea chests are covered, and find it superior to cotton, (as the bees never bite holes in it). When the supers and queen excluders are removed, the matting is placed over the combs on which a cushion of chaff is laid, and the box packed full of soft pea straw, with the bee entrance left open, full size, so that they can take a flight whenever the weather will permit. I have found this the only safe way of wintering bees without any spring dwindling, to profitable apiculture.

Another evil practice is the use of the honey board on the hive, especially in the winter; the moisture cannot escape through a board cover and is continually dripping back on the combs, causing them to mould, and to start dysentry in 'he bees. I find in removing the packing

from the top of the hive that it will be quite dan while the mat cushion and the combs are perfectly , Some time during April, are flying and the day is c I remove the top packing the bees and combs by lift frames, and cleaning out doing so I can see exact they are in, generally w honey to carry them throug find the back sheet fille honey untouched, which replace with a full sheet and shift one or two of th that are partially filled wit nearer the brood, and leav the bees will attend to th business. If I find one th be short of stores I give sheets; I have never fed one syrup for over thirty yea commenced my present mo ment they are then left un swarming time, or until t put on with the matting over the frames. In not after the first swarm comes are all drawn out and a cells removed but one, cons swarms are not expected stock is in fine condition for in the super. Only full she tion and drawn combs are hive, consequently but fe raised. In order to provide place a strip of foundatio wide in top if frame, and finish them with drone co better than brood cells for and can be used for several perly cared for; they ar stronger than new combs free of brood and pollen. the "Jones" frame solely fo 14 inches deep by 11 inches measure. The hives were 1

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from the top of the hive in the spring that it will be quite damp on the top, while the mat cushion and packing near the combs are perfectly dry and clean. Some time during April, when the bees are flying and the day is calm and warm, I remove the top packing and examine the bees and combs by lifting out all the frames, and cleaning out the hive; ty doing so I can see exactly what state they are in, generally with plenty of honey to carry them through, and often I find the back sheet filled with sealed honey untouched, which I remove and replace with a full sheet of foundation, and shift one or two of the back sheets that are partially filled with sealed honey nearer the brood, and leave it capped as the bees will attend to that part of the business. If I find one that is likely to be short of stores I give them the full sheets; I have never fed one drop of sugar syrup for over thirty years. Since I commenced my present mode of management they are then left undisturbed until swarming time, or until the supers are put on with the matting and cushion over the frames. In not over five days after the first swarm comes off the frames are all drawn out and all the queeen cells removed but one, consequently after swarms are not expected and the cld stock is in fine condition for storing honey in the super. Only full sheets of foundation and drawn combs are used in the hive, consequently but few drones are raised. In order to provide super combs, place a strip of foundation two inches wide in top if frame, and let the bees finish them with drone comb, which is better than brood cells for extracting, and can be used for several years if properly cared for; they are better and stronger than new combs and are kept free of brood and pollen. I have used the "Jones" frame solely for many years, 14 inches deep by 11 inches wide, outside measure. The hives were made at home out of any light material and of uniform

size, and dressed inside; as they are never exposed to the weather they will last a lifetime and prove a great saving of time and money, compared with the usual style of hive with waterproof roof and paint, and left exposed during the summer months to sun and rain which soon splits and destroys them.

I am satisfied that the C.B.J. is doing good work, especially since it came under the present management. After making allowance for much of the silly ideas presented by some of your correspondents as it always has, and still is necessary, for the reading public to do considerable sifting, and we are likely to still have a few correspondents who are much better at preaching than practice.

F. W. Clark, of Lindenbank, near Guelph, was correspondent to the "Montreal Witness" specially on the honey bee, and was a success until he attempted to prove that bees, if kept in a sufficiently cold atmosphere during winter would hibernate, and consequently eat no honey until they awoke in the spring, which rather damaged his reputation as an authority on bee management. I visited his apiary and met him many times, and found that he could not practice what he attempted to preach, as a bee sting was almost death to him. I asked him if he really believed what he had written on the hibernating theory, his answer was: "In writing for the public papers you must have something fresh and new to interest the public."

That same idea seems to be still in the minds of many correspondents who seem anxious to change the natural instinct of the bee, which is sheer folly! I read an article lately, I think the writer is an American, who claims to have found "three mature queens busy on a single sheet of comb." If that proves to be a fact, it must have occurred in Utah, and the bees and queens have learned and are following the habits of their masters.

who have completely changed their nature.

An article from T. H. Burns, published in the Farmers Advocate of February 3rd, inst., in part says: "I wish to say that there is no problem confronting the bee-keeper in Ontario to-day as difficult to understand as that of wintering, and none in which the losses are as great or as difficult to prevent. When we realize that over fifty per cent. of the bees in Ontario died in one winter through faulty methods,, * * * "we cannot understand how the equipment of a modern bee cellar would more than justify the expenditure for the same." The writer of this article above noted, does not appear to understand the natural habits of our honey-bee, forgetting that they are the natural product of a mild and warm climate, and not confined three or four months in an unnatural state. instinct and necessities demand periodical flights in the air, in all seasons of the year, which cannot be provided in this northern climate to which we have imported them, by confining them in a bee-house or cellar. During our long and rigourous winters, no matter how perfect the cellar may be constructed, the bees must be removed from cellar in March or first of April at least for a flight in the air, in order to cleanse their bodies of the load that they have been carrying, and if placed on their summer stands unprotected, then comes the news of spring dwindling, chilled brood, and all the other evils that bees are heir to, and I believe has a great deal to do with the origin and spread of foul brood.

I took notice lately of an article on bees in the Los Angeles Daily Times, hy Allie Shultz, viz.: "The Calabasas mountains are the working ground of more than ten thousand colonies of bees that are found to be clean and free from the dread disease of apiaries, foul brood. hives can be secured when they swarm from the wild bees that abound in the

rocks and caves in Encine Canyon in the Calabasas County."

"Homeopathic physicians will buy bee stings in large quantities to be used as a medecine, called Apis Mallifica. The stings which are tagen from live bees are placed in small phials of sugar or milk and used for the cure of Rheumatism; it smells like sting poison and is given internally."

"One peculiar thing in the bee world of to-day is the lenthening of the bee tongue. A bee's tongue is about the twenty-fifth of an inch long, and by keeping only those bees with naturally long tongues, the bee-keepers have succeded in length. ening a number of colonies to the extent of another hundredth of an inch; it does not sound much, but it enables a bee to do a fourth more work in the same time."

Now, if we take the above notes seriously, we must come to the conclusion that the Americans are much cleverer than Canadians, as friend Jones, of Beeton, after travelling over a great part of the world and spending a fortune, failed in producing a bee with a longer tongue, or very much superior to our native black

I hope the O.A.C. in commencing the teaching and study of the honey bee, will avoid any further expense in experimenting with costly bee houses or cellars and try to provide for and follow the natural habits and instincts of the honey

I attended a convention of bee-keepers in Toronto many years ago, where I had the pleasure of meeting the Rev. L. L. Langstroth and several other American gentlemen and had the pleasure of listen. ing to a most common sense address on the natural history of the honey bee and utility of the movable frame. My idea now is, and has been for many years, that the world, and more especially the bee-keepers of Canada and America owe a debt of gratitude to the names of Langstroth and Quinby that they can

never pay in kind, therefor devise a scheme to be put the convention held in Cana pondence with the bee United States of America an of the world, with the obje raising a sufficient amount erect a monument to per names. I suppose the prope be in New York City or S are both Americans.

TH

We have nothing in hist that the old-world before any more about the natural honey bee than did the new the middle of the eightee when the researches of the were given to the waiting w

The Israelites, in their through the wilderness, wer with the promise that they ually inherit a land flowin and honey, which in their a land of plenty; while Sam the honey found in the ana lion he had slain as "meat The riddle was solved by tl after plowing with Samson's the whole world was enlig has reaped immense profit fr ing of the bee riddle by La Quinby.

FROM GERMAN JOU

Jacob Haberer

Thick or Thin Syr

J. R. Crane reports in the Nouvel of an interesting exp weighed three groups of be colonies. To group No. 1, kilogr. of sugar dissolved in water. To group No. 2, 34 solved in 34 liter of water given warm. Group No 3, same feed as No. 2, but it After two weeks the co weighed. The increase of in Encine Canyon in

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never pay in kind, therefore, why not devise a scheme to be put in motion at physicians will buy bee the convention held in Canada, in corresnondence with the bee men of the United States of America and other parts of the world, with the object in view of raising a sufficient amount of money to erect a monument to perpetuate their names. I suppose the proper place would he in New York City or State, as they are both Americans.

> We have nothing in history to prove that the old-world before Christ knew any more about the natural history of the honey bee than did the new world up to the middle of the eighteenth century, when the researches of those two men were given to the waiting world

The Israelites, in their long journey through the wilderness, were buoyed up with the promise that they would eventually inherit a land flowing with milk and honey, which in their minds meant a land of plenty; while Samson describes the honey found in the anatomy of the lion he had slain as "meat and sweet." The riddle was solved by the Philistine, after plowing with Samson's heifer; and the whole world was enlightened, and has reaped immense profit from the solving of the bee riddle by Langstroth and Quinby.

FROM GERMAN JOURNALS.

Jacob Haberer.

Thick or Thin Syrup.

J. R. Crane reports in the Apicultural Nouvel of an interesting experiment. He weighed three groups of bees, each rive colonies. To group No. 1, he fed 34 kilogr. of sugar dissolved in 17 liter of water. To group No. 2, 34 kilogr. dissolved in 34 liter of water; this was given warm. Group No 3, received the same feed as No. 2, but it was fed cold. After two weeks the colonies were weighed. The increase of group No. 1

was 34 kilogr.; the increase of No. 2 was 29.5 kilogr.; of No. 3, 29 kilogr. The difference in weight shows what amount of feed the bees had to consume to evaporate the overplus of water; that is 4.5 kilogr., to evaporate the extra 17 liter of water fed to group No. 2. The cold feeding required still more, 5 kilogr. tor the evaporation.-Bienenzeitung.

In English Mechanics the interesting fact is stated that a bee without a load will fly 65 kilometers in an hour; about as fast as an ordinary express. But with a full load of pollen she can only make 20 kilometers per hour at the fastest. I'ut still this is a great accomplishment, conpared with only about 6 kilometers ; er hour for a good walker.—B. Wegweiser.

Foul Brood Cure.

At the Bee-keepers' convention at Nienburg (Oct., 1909) Ed. Knoke stated how he cured 17 foul broody colonies in 1907, and that the disease never appeared again. He disinfected the empty hive with formaldehyde vapor (40%), shaked the bees on foundation, divided the combs to the other diseased colonies to save the healthy brood. He treated a colony every other day. By the time he came to the last colonies (middle of June) he used some of the brood comb of the first treated colonies; in this way he says le lost very few bees and by the end of July, had not only 17, but 21 good healthy colonies, and nothing of foul brood has been noticed since. He claims to have used disinfected combs with even a few scales in, but only in surplus department, as it seems. He thinks very much of the formaldehyde disinfection. He used a certain inhaling apparatus. -Bienenwirtschftlicher Centralblatt.

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April, 1910

EXPERIMENTS WITH FARM CROPS.

The members of the Ontario Agricultural and Experimental Union are pleased to state that for 1910 they are prepared to distribute into every Township of Ontario material of high quality for experiments with fodder crops, roots, grains, grasses, clovers and fertilizers, as follows:

Branco, carrier	
No. Experiments. Plo	ts
1 —Three varieties of Oats	3
2a-Three varieties of six-rowed	
barley	3
2b-Two varieties of two-rowed bar-	2
ley	2
3 -Two varieties of Hulless Barley	2
4 -Two varieties of Spring Wheat	2
5 —Two varieties of Buckwheat	2
6 -Two varieties of Field Peas	2
7 —Emmer and Spelt	2
8 —Two varieties of Soy, Soja, or	
Japanese Beans	2
9 —Three varieties of Husking Corn	3
10 -Three varieties of Mangels	3
11 —Two varieties of Sugar Beets for	
feeding purposes	2
12 -Three varieties of Swedish Tur-	
nips	3
13 —Two varieties of Fall Turnips	2
14—Two varieties of carrots	2
15 —Three varieties of Fodder or Sil-	
age Corn	3
16 —Three varieties of Millet	3
17 —Two varieties of Sorghum	2
18 —Grass Peas and two varieties of	_
Vetches	3
19 —Rape, Kale and Field Cabbage	3
20 —Three varieties of Clover	0
21 —Testing two varieties of Alfalfa	2
(Lucerne)	2
22 —Four varieties of Grasses	4
23 —Three varieties of Field Peas	3
24 —Three varieties of Field Corn	3
25 —Fertilizers with Swedish Turnips.	. 6
28a—Two varieties of Early Potatoes	2
28b—Two varieties of medium ripening	
Potatoes	2
28c-Two varieties of Late Potatoes	2

29 -Three grain mixtures for grain production 3

30 -Three grain mixtures for fodder production 3

Each plot is to be two rods long by one rod wide, except No. 28, which is to be one rod square.

Any person in Ontario may choose any one of the experiments for 1910 and apply for the same. The material will be furnished in the order in which the applications are received while the supply lasts. It might be well for each applicant to make a second choice, for fear the first should not be granted. All material will be furnished entirely free of sharge to each applicant, and the produce will, of courst, become the property of the person who conducts the experiment.

C. A. ZAVITZ. Director.

Ontario Agricultural College, Guelph, March, 1910.

SOUTHERN CALIFORNIA.

The bee industry of Southern California, while not yet far developed, is an important one. The production of the State in favorable years has amounted to nearly 10,000,000 pounds, and most of it comes from the Imperial Valley (a wonderful honey-producing section that has leaped to the forefront), and districts south of the San Joaquin.

IMPORTANCE OF RE-QUEENING.

(Continued from page 90.,

stantly joining our ranks. It is very largely for their benefit we discuss these problems. I would, therefore, postulate that the beekeeper's year ends with the close of the white honey flow. Taking this as our starting point, I consider his work after that is preparatory for the coming year. Therefore, if that be the case, I would say that his policy is to immediately re-queen at the end of the white honey flow. If he does,

he puts his hive in possess young and vigorous queen him a young, active, vigore to go into winter quarters. be effective for gathering a has one. But, the prime p that he has a new queen p mediately after the close

honey, which will give hi stock of young bees to go winter. This is one of the for good wintering. Havi stock for winter, I will as know how to winter your no part of our present di will assume your hives h winter quarters and winte have a minimum of chance going to lose your queen d ter because she is a new, y orous queen, and the proba will come through the wir cessfully than if she were a

Having come through yo enter into your spring worl ter into it you have also and the further satisfaction a young and vigorous queen You know that other thing she is going to be able to s well with young bees, and to come into your summer good hive full of bees. Dr that breeding is heavy, just white honey flow, (and al flow), see to it that your o -laying to her utmost capa this care must be taken t nest is not so crowded w capped brood that she will cells in which to lay. If state occurs—and it is ve frames of honey or fran brood to the upper storey. with empty comb below, her with ample room in wh will not exceed that which ake care of. By thus kee chamber roomy you

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he puts his hive in possession of a new, young and vigorous queen that will give him a young, active, vigorous lot of bees to go into winter quarters. They will also be effective for gathering a fall flow if he has one. But, the prime point in this is hat he has a new queen put in his hive mediately after the close of the white honey, which will give him a vigorous stock of young bees to go through the winter. This is one of the first requisites for good wintering. Having your good stock for winter, I will assume that you know how to winter your bees. That is no part of our present discussion. We will assume your hives have gone into winter quarters and wintered well. You have a minimum of chances that you are going to lose your queen during the winter because she is a new, young and vigorous queen, and the probabilities are she will come through the winter more successfully than if she were an old queen.

Having come through your winter you enter into your spring work. As you enter into it you have also the assurance and the further satisfaction that you have a young and vigorous queen in your hive. You know that other things being equal she is going to be able to stock that hive well with young bees, and you are going to come into your summer flow with a good hive full of bees. During the time that breeding is heavy, just prior to the white honey flow, (and also during the flow), see to it that your queen is laying -laving to her utmost capacity. To insure this care must be taken that the brood nest is not so crowded with honey and capped brood that she will have no empty cells in which to lay. If this crowded state occurs-and it is very likely-lift frames of honey or frames of capped brood to the upper storey, replacing same with empty comb below, thus providing her with ample room in which to lay. She will not exceed that which the bees will ake care of. By thus keeping the brood chamber roomy you eliminate that crowded feeling that prompts the desire to swarm. Swarming is largely prevented by giving abundance of room on top, and avoiding a crowded brood chamber. The man who will thus manipulate the brood chamber will get the bees, and having the bees he will get the honey. At the end of the honey flow you have done with that queen-you have exhausted her-and you will renew her again; and so the process will go on. This to my mind is the philosophy and utility of re-queening-There are subsidiary questions, which might be taken up as to where you are going to get your queens. I presume that the man who requeens knows where to buy his queens, or if he is not buying his queens, that he knows how to raise them, but neither of those questions have anything to do with the question of requeening. Mr. Sibbald told you the virtues your queen should possess. That was very nice. It was a most desirable thing to get queens possessing all those virtues-all those admirable strains. Perhaps it is my fault, but I have not known where to locate such a queen. It is nice to have a queen that has a good laying strain; and a honey gathering strain; and a mild temper, but for the life of me I do not know where to find such a queen.

If you are raising your own queens you will, of course, select the best queen you have in your yard and breed from her, but whether you are going to get all these various strains in one queen, and whether or not you can buy such a queen, is something I can not advise you upon. But, as a general principle, I am a thorough believer in putting new and vigorous queens in your hives every year.

Mr. Anguish—As Mr. Sibbald said in his outline, this is one of the most important things to the bee-keeper. I say it is the most important thing in bee-keeping—that is looking after your-queens. As soon as the honey flow is about at a close I re-queen my yard all over as much

April, 1910

there are the better. Mr. Dine took a short cut that was well worth paying attention to. I have practiced the same thing. I like it first rate. I will get more profit out of young queens than old ones. Someone will say, I have had queens do so and so at such and such an

age. Yes; you can get good men at 70.

but you can get more good men at 40.

them to work right, and the more bees

Mr. Dine—I am a firm believer in requeening, but we are taught a queen lives from three to four years. Is it possible for a queen to get to her best in ten or twelve months. If I had a queen that laid a comb full of eggs do you think I would change her the first year? No, I would keep her for two years or more. I go, personally, more by the looks of a queen. As long as she is bright and yellow and filling the combs full, I would keep her till she showed signs of failing.

Mr. McEvoy—That will all depend upon the work you take out of that queen. You keep her confined to the brood chamber only; you raise no brood to the super.

Mr. Dine—That queen will wear out in two or three years in that way,

Mr. McEvoy—I would run that queen and wear her out in the time I say.

Mr. Hershiser-The question resolves itself to this, do away with all your poor queens and keep your good ones. Mr. Ross wanted to know how to find a queen, and there are several ways of doing it. I would like to call attention to one or two. By taking the frames out one by one and shaking the bees off at a considerable distance, stringing them along on a sheet, if you please, and get them to run in, and if you watch them at the entrance you will soon find the queen. Another way is to put a queen excluder over the hive and shake the bees down, and as they run through it they will strain the queen out, and you will find her on top of the queen excluder.

as I can, but not to kill everything off; that is going a little too far. You have got some colonies in your yard that have given you some great results this year. What are you keeping them for? Those are the ones I want to breed from next year. I want to get some queens from colonies. Here is where we bread and butter, from our get good stock of bees we have We all know that queens vary, and they vary some times in seasons too. Take one season, a queen will do extra well: she won't do as well the next, but you can raise good queens from that one.

There was one bee-keeper here who was telling me he bought one queen from a certain queen breeder in the United States this year and gave \$5 for it. He has requeened his whole yard—90 queens—from that one queen this summer. I think that man has made a mistake. He has probably got 90 queens that won't be much good to him next season.

Mr. Ross—I was very glad to hear Mr. Sibbald say he enjoyed looking for queens. I am so situated, I have to get to work at my bees early in the morning or after 6.30 at night, at both of which times the hives are packed full of bees, and I have experienced a good deal of difficulty in finding queens at that time. Can anybody give me some scheme whereby I can get those old queens to supersede without too much difficulty?

Mr. McEvoy—As a rule about 6 o'clock in the morning the queens are on the first three frames in the centre, and they go in a circle around. They are at one side or the other at 6 o'clock in the evening. I want plenty of bees. I couldn't agree with Mr. Sibbald in that.

Mr. Sibbald—I meant you should not choose to breed from the most prolific queen you had just because she was prolific.

Mr. McEvoy-That depends on the training you give these bees. You can get the work out of these bees if you set

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you take out of that ep her confined to the nly; you raise no brood

at queen will wear out in ars in that way,

-I would run that queen it in the time I say.

-The question resolves itaway with all your poor p your good ones. Mr. o know how to find a e are several ways of do-I like to call attention to taking the frames out one aking the bees off at a stance, stringing them et, if you please, and get , and if you watch them you will soon find the r way is to put a queen the hive and shake the l as they run through it 1 the queen out, and you

on top of the queen ex-

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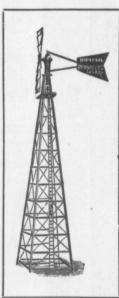
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