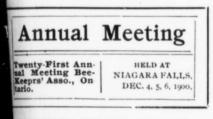
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WINTERING BEES IN AND OUT. By H. G. Sibbald, Cooksville, Ont.

Bees to be wintered successfully, or out, must be properly prepared, d although preparing bees for nter might more correctly come der the heading of Fall Managent, still, on account of its vital portance and influence on the ntering Problem, I cannot pass it hout notice. By September our esought to contain a well popud colony, and a good queen, ng if possible, and before the of October they should each ain not only bees and queen, but ty-five to thirty-five pounds of ripened, well-capped stores, in more than six or seven average combs, with a division board side to keep them cosy, warm

en if we are to winter outside, them up anytime in October, ng twoor three inches of sawdust, dust, chaff, or leaves all around on top four or five inches. ie a good water proof cover, the hive one foot from the ground, contract the entrance, and very little, if any more attention will be required until Spring.

But if we decide to winter indoors, which I prefer, if a suitable cellar can be obtained, they must be left on their summer stands until about November 20th or December 1st., when a suitable day must be chosen after they have had a fly if possible, and before sufficient frost has come to freeze the moisture inside the hives. Have your cellar ready, clean, and sweet, stands arranged a foot or two from the floor, and away from the outside walls if space will allow: then, a day or two before moving in the bees loosen the bottom boards, place a new quilt or cover over any that have chewed holes in the cover. and you are ready.

Commence to carry them in by taking the one nearest the cellar, placing it to the further end of the cellar, keep on down that row, up the next, and so on until they are all in. You will then have no difficulty in placing them back on their old stands in the spring.

But to go back a little, the stands in the cellar should be two or three inches higher behind than in front, so that the hives will sit slanting towards the front when in; then raise the back of the hive of the bottom board and block it up with 3-8 of an inch block, thus providing for perfect ventilation the fresh air going in behind, passing up and through the cluster where it becomes damp and heavy, causing it to fall again and pass out the front entrance.

After placing one row on the stands and blocking them up, take off all covers except the propolized quilt, place two one in. strips on the top and you are ready for another row. Repeat this until you have them as high as your cellar will permit, then start another row, leaving room between \bullet to get in and sweep up the bees which die through the winter, which is all the attention they require until Spring.

About the last of March, or April 1st, they ought to be moved out. Preparatory to doing this, go into the cellar with a candle and take a peep under each hive through the opening behind where the hive is blocked up. If the bottom board is clean and dry, the bees clustering quietly, etc., mark the hive O. K. It will not need any attention after setting out, unless you find it very light, and possibly short of stores, in which case you will have to attend to it. You will find that this is a splendid plan, saving labor and fussing with the bees when they are better left alone.

Next, gently take out the blocks and you are ready to set them out the next suitable day. Commence taking them out orderly; the first to come out will be the last you put in and will go to the far end of the yard, where it came from. Follow this right along, and you will soon have them on their old stands, with a few vacant stands, and all in splendid shape for a harvest of honey.

Mr. Hall: Mr. Sibbald is a very excellent bee-keeper. I suppose what Mr. Sibbald wants is that his paper should be picked to pieces. Mr. Sibbald commences very orderly in taking the hives from the yard into the cellar by taking first the stock of bees nearest to the cellar door and no rus continues thus to the end. Suppose to the ing two of the stocks of bees died becaus following Mr. Sibbald's system that away will put the balance of the hives on are we to the wrong stands, and if you have any special hive of bees that have back. done good work for you or that are does n cross, or have other peculiar charace Mr. teristics, you have lost track of tha stock of bees because it is on a new form f stand.

Mr. Sibbald: If you lose one- front of which you should not do if you wir- three is ther them rightly—you can leave the Mr. old hive there until you get them all Mr. out, or skip that one.

Mr. Hall: We generally listen to hive, h them when we put them on the hand fom be barrow; if the stock is dead we do Mr. not take it out. Your plan is ver nch, nice but allow me to tell you how wo Mr. take them out. Our stocks of bestier go stand four in a clump; these clump hree i are all marked alphabetically and is Mr. stead of commencing near the cells Mr. door we commence generally at hey the far end of the apiary. We take done of one from each clump and take it is use t and that leaves only three on a stan would We commence again and leave of ong of two, and so on, and we take them do Mr. Mr. Hall: We generally listen to hive h two, and so on, and we take thema M_r , in the order in which they are put ally h We do not take them out at the σ ch r time; if we do they injure the hree selves. We have taken them out at up Mr. ly h ch r at ur Mr. the cellar all at one time and the Mr. have created a great furore and try to get into two or three hives n he one corner of the apiary, and the S SO1 hives are of no use afterwards and lonie e to have lost all those fine bees in spring. In putting them into Mr. st o cellar we take them from all over apiary; they are in clumps of it cel and we take one and that leavest cee and commence again, and when the re a are two we commence again and la ordu one. They can never fail to gol tk t in the same place again, and then I tl

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no rushing all into the one hive. As to the cloths, we do not like the cloths because they are dirty and they blow away in the summer season when you are working and you have to get a boy to pick them up and fetch them back. If you have a good board it does not run away.

Mr. Holmes: I would like to ask Mr. Sibbald if his paper said that the form for placing the hives on in the ellar should be so arranged that the ront of the hive should be about three inches lower than the rear?

Mr. Sibbald : Yes.

Mr. Holmes : Then you said to put n inch block under the rear of the ive, between the hive and the botnd om board ?

Mr. Sibbald : Three-eighths of an nch. Mi

Mr. Holmes: And when the next ier goes on top of that put on another aree inches for the next row?

Mr. Sibbald : Yes.

Mr. Holmes: It occurs to me that w the time you would have put on ree or four rows of hives you would ave them pretty well tilted up. 11

tail fould they not be in danger of slip-od ing off? not Mr. Sibbald: The top one would uti ally have about three-quarters of an 2 of the more slant than the bottom. the firee times three eighths—count at up. Mr. Sparling : Nine-eighths. ut

Mr. McEvoy: We have a gentle-in here from the United States who is some sixteen hundred and forty onies—Mr. Coggshall; we would te to hear from him.

Mr. Coggshall: I winter in sawst out doors. I never winter any in ceed; the cellar wasn't right. I re always wintered out if the law are set of the law are idle wdust. It would be a good deal of gol atk to draw them home in the win-I think. I use packed hives alto-

gether or large boxes that I pack them in.

Mr. Sparling : How much packing do vou use?

Mr. Coggshall: Two or three inches; some of them would have four inches. I prefer the sawdust because the mice won't work in it.

Mr. McEvoy : About how far below zero does it go in your locality?

Mr. Coggshall : Down to thirty.

Mr. Hall: Did you ever try forest leaves?

Mr. Coggshall: They are excellent.

Mr. Hall: Did you ever try them?

Mr. Coggshall: I have in one or two of my apiaries. They are an excellent thing ; there is not anything better I can assure you.

M. Dickenson: I winter in the cel-I don't know anything about lar. Our friend Mr. out door work. Coggshall is an out door man altogether. I should judge he would be because of the number of colonies he has. It would take a good many cellars and pretty large ones at that to hold all the colonies he has to winter, but I have been of this opinion for a number of years that bees can be wintered successfully out doors or in cellars; it is all in knowing the two different systems, and it is just as possible to winter successfully in the cellar as it is out of the cellar.

In regard to Mr. Sibbald's paper, in numbering his colonies, or having the colonies so that they will all go on the same stands again, I find a good way to do is just to number the hives so that there will be ro mistake because I think it is important that the colonies should go back on their own stands. I take a shingle or piece of board, or anything that is handy and draw a few lines and mark the numbers so that I will understand thoroughly. If there is a blank there will be a blank marked on the plan. I find by having this piece of board

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marked in that way there is no trouble about getting the colonies back on to the same stands they formerly were on.

Mr. Hall: I will improve on Mr. Dickenson's plan. We put ours four on a stand and in the fall when we are putting them in we mark on them, for instance, B northwest, B southwest, B north-east, B southeast ; they are marked right on the front of the hive and when we take them out of the cellar we run over them and put each hive where it belongs. I find it very essential to put them on their old stands for various reasons; there are some of them which are cross, others good tempered, others pretty, others are not, others good honey gatherers, others are not. We get acquainted with these individual stocks of bees through the summer and if they get mixed up with others in the spring, we don't know where to find them, and the summer goes by before we find the characteristics of each stock of bees in the apiary: but by putting them on the same summer stand we have no trouble that way.

We winter one of our apiaries in the country, out doors and with If Mr. Coggshall will try leaves. leaves he will never go back to sawdust. I find sometimes my boxes leak, and if the sawdust gets wet the moisture won't dry out of it ; it is different with the leaves and they last for years. I believe that packing with forest leaves is superior to sawdnst or chaff. I prefer wintering them inside whether the quantity is large or small; it is much easier to carry them in and out again than it is to pack them. We winter one hundred and thirty stocks of bees in a small cellar 12x12.

Mr. Post : I usually winter both indoors and out. This year I am not wintering any out doors on account of not getting my bees home in time to transfer them to the chaff hives. In the last three or four years in wintering forty-five stocks outside I don't think I have lost half a dozen colonies. My hives are filled in with sawdust four inches all round and two inches in the bottom and permanently packed to remain winter and summer and I have a cushion of about three inches of forest leaves voted i that goes on top, and they are put in with a press so that there is a large hey w quantity put in each one and a cloth over the top and bottom. That cushetwee ion goes over the top of the hive and wan't i the sun cap behind is raised up and ng us rests on the top of that rim. That is Mr. the only way I can winter bees out ucces side and I have tried almost every emovi other way. The sun cap is four oards inches deep and it telescopes down be hi over the hive three-quarters of an te I 1 inch, resting on cleats. I don't allow ith s the cover to go down; I raise it m tter behind. About the first of March I Mr. shut it down ; it is painted red and it ince forms a regular hothouse Mr.

Mr. Hall: We don't live in such a cold country as you. We have a large entrance ; it is one half an ind deep and five inches wide, and is four and a half inches back from the from of the box.

Mr. Post: My entrance is three eighths of an inch by the whole width of the hive and it is left opt during the whole of the winter. can't winter with a small entranced the outside. Inside they are piled the cellar in the usual way; I rais them on blocks behind, similar to M Sibbald. They are carried into the cellar now and the cellar doors a windows are opened and they remain th open until cold weather sets in; the are just the same as though the were under a shade or cover outside When extremely cold weather sets the doors are closed and they are le

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to remain for the winter.

Mr. Holmes: Do you remove the propolis cloth for wintering?

Mr. Post : I don't have a propolis doth: I couldn't be hired to have one.

Mr. Hall: It is a dirty thing.

Mr. Gemmell: I am glad you have come to our rescue. I was defending the plain board for a cover and they voted it down.

Mr. Hall: They haven't tried it or they wouldn't have voted it down.

Mr. Gemmell: The only difference between us is the way of doing it. I van't to thank Mr. McEvoy for tell-ng us about the leaves.

Mr. Miller: I wintered indoors the accessfully for a number of years by the accessfully for a number of years by the moving my hives from the bottom the boards when I put them in. I placed where hive on top of two covers. Of an ite I have been wintering outdoors of ith shavings; I like them much 10. ith shavings; I like them much tter than the forest leaves.

Mr. Gemmell: What is your enrance ?

Mr. Miller : I leave the full width the hive, one-half an inch, with a bock at the front of the breach, leav-g about an inch actual entrance. Mr, Post: In wintering outside do 'e 1 incl

fou TOD u elevate the back end of the hive ich ?

hree Mr. Miller : I do, by putting packvhole under it.

Mr. Post : But the hive proper is sed behind ?

sed behind ? Mr. Miller: Yes; I elevate it pro-bly three inches; sometimes I re-we the cover and cometimes I do we the cover and sometimes I do

r. Smith : Do I understand, Mr. t, that you use the cushion and the leaves right on top of the nes?

r. Post: There is a cloth laid the top of the frames, although lined with cloth over the bottom, I do that to prevent the bees in the early spring putting propolis on the cushion.

Mr. Smith: I was under the impression you didn't use a cloth. (Laughter)

Mr. Heise: Mr. Sibbald in his paper mentioned four different kinds of packing, sawdust, chaff, cork shavings and leaves. I would like to know, in using those leaves, whether they are compressed or only put in loosely?

Mr. Evans: I don't think Mr. Sibbald was speaking of wintering outside; I think he winters altogether in the cellar.

Mr. Heise : This was outside.

Mr. McEvoy: There was another thing, keeping the snow away from the entrance.

Mr. Post: I place a small piece of board in front of the entrance to keep the snow from drifting in and to keep the cold wind out.

Mr McKnight: We have heard a good deal about the material used for packing. Chaff has been spoken of here. If chaff is ever put as packing on top of the hive no greater mistake could be committed, because it will absorb the moisture. What is up there should not be an absorbent, it should be a transmitter to allow the air to pass through and not to confine it. Chaff will mildew at the sides. If it is kept perfectly dry it is right enough, but if the least dampness gets in it will do the same thing around the sides. I quite agree with Mr. Coggshall as to the utility of the sawdust. I question very much if forest leaves are any better than sawdust of the right kind. It answers the purpose, and it answers it admirably, but it is not every kind of sawdust that should be used. No green sawdust should be used in packing. The sawdust that should be used is the sawdust you get in the planing mill from dry boards. Cork dust has been spoken of; that is better than

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any other material that has been mentioned yet, but it is a little difficult to get. I think I was the first to use that. It is not to be had easily except in the neighborhood of towns and then it is only to be had from grocers who bring in these Malaga grapes during the season and quite a quantity can be collected in that way. As to 'Mr. Sibbald's tilting up his hives in the rear and blocking them there to the extent of three-eighths of an inch. I am not sure of the validity of his reason for doing that. If I understand him aright, it is for the admission of fresh air, which, he says, passes up through the cluster and gets heavy and falls to the bottom and passes out at the front entrance. I don't think that is just the fact. I believe the air that passes up through an empty space becomes rareified and lighter and does not become heavier and desend to the bottom. And here comes in one draw back in the propolised quilt, it will not permit of the rarefied air that has been de-oxygenized or the oxygen absorbed out of it, to filter through the quilt. It is almost as impervious to either air or water as the board is. I think these forest leaves, so packed in is a capital thing for that; I belive they have a tendency to keep the interior of the hive dry and in good condition. Years ago I experimented on all kinds of packing and latterly I became somewhat indifferent as to some of the methods that were advertised and largely advocated. A great many of the fads have passed out of practice altogether in bee-keeping and I think a more common sense plan has been adopted largely from experience.

Mr. Evans: I would like to know if any of the bee-keepers present have had any experience in keeping bees in long clamps-eight or ten in a clamp, outside, packed in sawdust. I have kept mine for a number of

years and I have found some difficulty with some of them coming out very strong and some very weak. I believe there is that difficulty in keeping them in that way. I would like to know if any of the other bee-keepers have had any experience in that line.

Mr.McKnight: I have had sufficient experience never to try it again. With regard to a house especially constructed for bees, sawdust was largely advocated for packing when above ground, but it does not do below ground. I would advise any man thinking of that kind of a thing to never use sawdust. The and I reason is, no matter how dry it is it was st will dry-rot the posts that form the hrous frame of the building. That kind of he air house was a great fad one time. hrous put up a house of that character and now I believe it was one of the best of it xyge kind but to-day it is pretty nearly leavie ready to come to the ground. rong

Mr. Hutchinson: My experience of clamps was not such clamps as M Evans had reference to. He had reference to the packing of bees about the ground where they would have an opportunity to fly. My experient has been in wintering bees in clama under the ground, burying them like potatoes-pitting. I have had 1 experience in putting them in long rows and clamps in that way. The Vge only object I can see is if a man is nt ! a locality where he must protect the and he has no cellar, that is a make in shift, that can be done, but that is CO the advantage. he

Mr. Heise: Mr. Sibbald, I thin you spoke about using four inches top packing. Is that compressed thrown in loosely? My reason asking the question is that I the Mr. Newton referred to the top pad ing as ten inches and Mr. Sibb four inches.

Mr. Sibbald: Mine was sawd I never used leaves at all, although

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believe the leaves are all right. I have wintered more in the cellar than outside and I prefer cellar wintering. I would like to ask Mr. McKnight if he ever tried the system of blocking the hives up?

Mr. McKnight : No, I never did.

Mr. Sibbald : I have tried both and I am in a position to know, and I know from actual experience the air does pass in the ba.k, up through the cluster and out the front, because at the front of the entrance you will often see drops of moisture and at the back you will find it quite dry, and I thought from that that the air was surely passing from the back up brough the cluster and out. Whether he air would be heavier after passing hrough the cluster or not, I do not mow, but I always thought when the oxygen was taken out of air it was heavier and passed down. I may be brough the cluster or not, I do not rong. At all events, the fresh air oming in the back would force the ul air out the front entrance.

Mr. Gammell: It carried the moistre down to the entrance?

Mr. Sibbald : Yes.

Mr. Smith: I think if Mr. Sibbald's mperature was high enough in his dar he would see no drops of water, Mr. Hall: It makes no difference out the scientific question as to ygen or nitrogen. I raise mine in mt because it is more convenient. traise them from one and a half to binches. The reason we do it is combs come out sweet and clean the spring instead of being mouldy; do not give a rap whether the isture goes in or comes out.

r. Smith: I think if Mr. Hall ld loosen the quilt a little at the it would answer just as well.

r. Hall: I couldn't do it, sir. You d'nt loosen my quilt. We look a tahead. We don't meddle with stocks of bees when we put them until it is warm enough for them to fly. If we want to look at them we look at the bottom, not at the top. I don't care anything about where the oxygen goes out or the nitrogen comes in, I know it keeps the combs from moulding. I have a board cover; as the bees leave it, we prefer it that way.

Mr. Smith: If Mr. Hall would loosen the cover the least bit, with temperature right, the bees would all leave the bottom board, anyway, that is a little on the slope.

Mr. Hall: My bees are hanging down below the bottom. The temperature in my place is 50 and as quiet as it is in this room. The temperature doesn't make so much difference if the atmosphere is pure. We have a door and window with a dark screen in it and if you put your hand to the chimney you will find a tremendous draught of air ; it is pure ; If the temperature goes up to don't degrees they mind 50 it: if you keep them down to 44 they want to get out, they want to fly.

Mr. McKnight: I once saw a bee hive in the garden of the State of New York and it had no bottom and the combs were hanging down below the edge of the hive proper.

Mr. Hall: I will tell you a story about that. I went to a friend of my wife's-I didn't know the old gentleman till I got there-he was seventyeight years of age; he had a row of bees, there might have been twenty or thirty. The fence formed the back of the shed and then there was a roof to it and he had the hives two deep on it; he had four poles running from end to end of this shed, and his box hives were set on these poles and the combs were hanging down fourteen, sixteen and seventeen His reason was on account inches. of the moth and in that way the moths did not destroy his bees.

Mr. Armstrong: I was going to ask

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Mr. McKnight why it was he didn't succeed with chaff. I have wintered bees what I call successfully, with only from one to ten per cent. loss in the winter, and I have used wheat chaff, oat chaff and sawdust, and I can't see a particle of difference. I generally pack from four to six or eight inches of packing on top, pressed down with my hands; I leave a small space under the cover between it and the packing. I never let the packing, if I can avoid it, come up tight against the outer cover, otherwise, the moisture will strike there and the chaff will get damp and rot. If you leave a small space there there is never any trouble with the chaff getting damp or rotten. My entrance is five inches by threeeighths of an inch.

I was also going to ask Mr. Hall if it was really necessary to have the entrance the full width ?

Mr. Hall: If I had my choice in making packing cases again I think I would have it the whole width of the hive. My entrance is one-half an inch by five inches.

Mr. Post: My experience is identical with Mr. McKnight's with using chaff. Forest leaves are the best.

Mr. Heise: Was the chaff in the cushion?

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Mr. Post: No, thrown in loosely. Mr. McKnight: It is worse in the cushion.

Mr Post: The chaff was placed in the top story with a cloth underneath but it got wet and mouldy; there was over 69 per cent. of the bees that were blue and the combs were blue moulded.

Mr. McEvoy : One of the greatest drawbacks is the use of a cushion filled with chaff; the bottom of the hives get choked with snow; the steam rises and goes up into that cushion of chaff which will hold it, and then zero weather sets in and the

chaff in the cushion gets frozen. With green sawdust packing such as Mr. McKnight spoke of, if you use much of that, it is like a little refrigerator. If the sawdnst is perfectly dry and not too thick, all right.

Mr. Armstrong said he threw the packing on loosely. He lives away in South Ontario and Mr. McKnight lives north. It makes a difference where you live; you may be both right.

Mr. Armstrong: We never have it go much lower than ten degrees below zero and it will not remain for more than two days.

Mr. Post: We get it from 10 to 14 below zero for ten days.

Mr. Fixter: Has any one ever tested outside as against inside wintering in reference to the amount of super honey consumed? Also, has anyone princi kept track of the time in packing a alway against carrying them into the cellar Dees a I might as well tell you my exper then i ience. I think there is more honey ully t wasted than will pay for building upers a proper cellar. And in the time eded consumed and the trouble in packing nedia I hive you will carry 6 into the cellar oney

Mr. McKnight: Seven or eight pounds of honey will keep a hive food for five weeks.

IMPROVEMENT OF STOCK.

By G. M. Doolittle in American Bee Journal

All apiarists who have an eye the betterment of their condition along the line of a better honey yit know that some colonies in the a ary gives better results than of Thus we often hear be others. keepers say, "If all the colonies h been as good as was No. 12" (nu cell ber 45, or some other as the a may be) "I should have had seve vir hundred, if not thousand, m pounds of honey than I secured t year." Well the question is, W not have all the colonies in the api as good as number 12? We m

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not accomplish all we would like to in one year, but by superseding all the poorer queens in the apiary by those raised from number 12, we certainly should be advancing our apiary up the scale toward number twelve's yield, This is what I have been working for during the past thirty years and it gives me pleasure to say that my colonies average very much more nearly alike in their yields, and the average yield per colony is much higher in proportion to the yield of nectar from the nectar bearing flora than it was when I commenced. And to improve our stock we must supersede our poorer queens with those from the better stock. I and that there is no time in the year in which the queens are so generally superseded as immediately after the principle honey flow. And we can always rest assured that when the bees are willing to do such work, then is our best time. With me. ully three-fourths of all the queens uperseded by the bees are so supereded during the three weeks imnediately following the basswood oney-flow. Knowing this fact I ave, for years, done the most of my queening at this time of the year, nd with success that has always leased me, and that without interferg with my honey crop in the least. mal othis end I start a greater number ie ! queen cells than usual from five to litio ght days before the expected close viel the basswood honey harvest, and, e ap en these cells mature, hunt out the an o queen and dispose of her, giving r be nature cell twenty-four hours after is h ving removed the the old queen. nu cell protectors are used, the cell e ca be given at the same time of reseve wing the old queen, thus saving m te opening of the hive; for, as a ed t the bees allow the queen to the all right where a cell-protector e api sed. If the young queen emerges Ve 1

from her cell in an hour or so after giving the cell, or before the bees are aware that their mother is gone, they will sometimes kill her and start cells from their own brood; but if the cells do not hatch in less than from twelve to twenty-four hours after the old queen was removed, nearly every queen will be accepted all right. By raising the queens before the honey harvest closes; that is, the bees doing the feeding of the embryo queens while in the larval form before the honey flow is over; they are sure to be fed in such a way that the very best of queens are produced, this also having a great advantage toward accomplishing our object over and above what would be if we raised our queens before the harvest commenced, or after it was over.

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Another plan which I have often used since my apiary became very much improved beyond what it formerly was, is to raise a lot of cells from my best queen at the time given above, and, twenty-four to forty-eight hours before they are booked to mature, give one to each colony having a queen more than one year old, using a cell protector for each one, and placing this protected cell in one of the sections on the hive, or anywhere I best can where the bees can cluster about it, without hunting out the old queen at all; when, if the bees have any notion to supersede their queen, they will accept of this young one and destroy the old queen. If they destroy the young queen I allow the old queen to remain, thinking that the bees know what is right, and in nineteen cases out of twenty where the bees decide on keeping the old queen I find she improves par excellence till after the honey flow of the next year is over. This is something that does not cost much labor and which I practice much to my satisfaction.

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THE CANADIAN BEE JOURNAL.

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BEE CANADIAN JOURNAL

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BRANTFORD - CANADA

Editor, W. J. Craig.

AUGUST, 1901.

EDITORIAL NOTES.

The Industrial, Western and Central Exhibition prize lists are well worth the consideration of progressive bee-keepers. We hope to see creditable displays and keen competition at these centres. The management assures us that every consideration will be given to the comfort and advantage of exhibitors. For dates, etc., see advertisements.

We recently had the pleasure of a visit from Mr. W. Z. Hutchinson, editor of the "Bee-Keepers' Review." Bro. Hutchinson is looking well, has been making a short tour with his kodak among his Canadian bee-keeping acquaintances. He regretted his inability through lack of time, to call upon a number of friends that he had intended to visit. Among those he especially mentioned were Mr. C. W. Post, Mr. Deadman, Mr. Heise and Mr. J. H. Shaver.

Secretary Mason of the "National Bee-Keepers Association" requests that we repeat the convention notice given in our last issue:-" All ar-

rangements for the next convention to pre of the National Bee-keepers Associadelega have been completed in so far as possible, and the convention will be tion ne held in the lecture-room of the Buf- gram ; falo Society of Natural Sciences, on be occ the 10-12 of September next, comdiscus: mencing on Tuesday evening.

Society. Natural Sciences The through Mr. Smith, its president, has he An also very kindly offered our associahe eve tion the use of their library and other he mi committee rooms during its meeting, nd fr and to do all in its power to help f the make our convention a success. The al Sta place of meeting is in the Buffalo lentra. Library building, on the corner of omin Washington and Clinton streets, near or the the business centre of the city. the f

Railroad rates will vary in the different passenger association territory. from one cent a mile each way to one ill res and one-third fare for round trip. Each one can readily learn the rate on enquiry at their railroad station

The Buffalo bee-keepers will try to provide entertainment at reasonable rates for all attending the convention who will notify Mr. Sidney S. Sleefer, of Holland, N.Y., of their wish for entertainment, on or before Sept. 2nd

In a letter just received from Mr. Sleefer, he says, "We want all t come that can, for we wish to make tion the Buffalo meeting the most pleasant and instructive one that was ever held in America. We will have the or operation of the Society of Natura he Sciences as well as the School Board, , a and names some professional me and who are interested in our specialt s h and will be at the convention to he rts make it instructive.

In a long letter from Mr. Hershist to just received, he closes by saying for call upon me for whatever furthers h sistance I am able to render," and M n Penton, an ex-president of the En le Society, an County Bee keepers' others have offered to do all they a Vi

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to provide for the comfort of the delegates.

As stated in my previous convention notice there will be no fixed program and no papers and the time will e occupied in the answering and discussing of questions.

Arrangements have been made for joint session of our association with he American Poenological Society on he evening of the 12th, to discuss the mutual relations of bee-keeping nd fruit-growing, and Prof. Beach, of the N.Y. Agricultural Experimenal Station, and Prof. Fletcher, of the entral Experimental Farm of the of Dominion of Canada, will help talk at or the bees at that session. As this the first time bee-keepers have had ifmeeting with the Poenological Ty, ociety, it is hoped that much good me ill result to fruit-growers and bee-ip epers' from this joint session, for The repers from this joint session, for at a expect a large attendance of on the members of the Ontario Bee-i to epers' Association, and many of the ble ading bee-keepers of N.Y. ion If any bee-keeper who cannot be at fet a convention has any knotty ques-for ms he would like to have answered and the convention, will send them to Mt. I will see that they are presented."

A. B. MASON, Sec'y. tion B., Toledo, Ohio.

The Honey Crop.

he honey harvest is practically , and bee-keepers are looking and and enquiring what the res have been. From the district rts received and published from to time, and from other sources formation, we conclude that the has been a fair average genernothing extraordinary.

e actual amount of the y crop is not by any means great we must remember that there is not nearly the number of bees in the country that there was a year ago. In some districts the winter and the spring loss has been estimated at about forty per cent. Taking these things into consideration we do not see any possibility of the market being glutted, or the need of bee-keepers selling at extra low prices. Small bee-keepers, and indeed some of the larger ones who "do not think it worth while to take a bee journal," are making the usual mistake of rushing what they have got on the market, and selling "in trade" to the grocers, and as a result the prices are probably lower now than they will be after these people get cleared out.

Editor Root in "Gleanings in Bee Culture," makes rather an interesting statement in this connection ; he says that "the Root Company finds it can buy honey from those who do not read bee journals at a lower figure than from those who take one or more, and keep track of the market ; and that it is a fact that the fellow who thinks he cannot afford to take a bee journal will sell his honey enough lower in one season to pay for all the bee journals for ten years."

Hutchinson is right in preaching "more bees." I find in my travels that the most successful bee-keepers -those who make money-are those who run from 500 to 1000 colonies, and some of them make more clean cash than the ranch and fruit men with ten times the investment.-Ed. E. R. Root, "Gleanings."

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LONG TONGUED BEES-Fad or Fallacy, Which? By G. M. Doolittle

Of late years some of our beepapers start off with some new idea, or some old one revived, and in a little while the heads in all beedom seem to get twisted out of the "straight and narrow path" and run off after an "apparent something," which a few years later, is dropped as if it never had an existence, with hundreds and thousands of hardearned dollars wasted over the hobby or fad.

The fad now "on" seems to be " long tongued bees," the fad having run long enough, and the excitement become great enough to warrant asking \$10, \$15 and \$25 for queens, giving bees having a certain length tongue-reach. And our good of Editor York is compelled to fall into line with the announcement at the head of his advertisement, "Longtongued bees are demanded now" Of course, the "fad" has caused the demand, and no one blames the editor for heading his advertisement in accord with that truth. But is the fad founded on truth or fallacy? That is the question that should be asked in all seriousness, before more money is wasted on the fad.

Long-tongued bees are either better workers, or they are not better. Then they may work on red clover where that abounds and be a great advantage there, without being any more industrious at gathering honey from apple-bloom, basswood or buckwheat, the nectar from which any bee could reach having a tongue not more than half as long as the shortest tongues measured. That being the case, long-tongued bees would be an advantage only to those residing where red clover and other long-tubed This brings me to flowers abound. look into this part of the matter, for

red clover has not blossomed to any extent in this locality for the past 15 years, owing to a "midge" or very the au small larva which works in the head that e just before it would blossom, thus reducing what used to be fields "red bees, i with clover blossoms" to fields having in ing a dull-brown color, which is as other. sumed at blossoming time from the Glear workings of this pest in central New These York. So, if these long-tonged bees with b are no better otherwise, their work-Mexic ing on red clover is of no advantage to me. So I turn to the testimony In eve

On page 220 of March 15th Glean ings in Bee-Culture, I find these words:

"The movement for longer tongue ed cl is simply to get the red-clover cro low le of the North, which now is pract oney cally all wasted. The bees no on s I st claims would be any better except of heir t that account." 900).

If the above is correct, then the long-tongued bees are of no specia advantage to me, nor to two-thirds the acreage of North America. An o tog yet I find parties in the extrem ling Southern States and Texas, heading ngu their advertisements, in that ver le hc same number of Gleanings, with Anc "Long Tongued Queens" just tion though such long tongues was the ade great desideratum for that Souther ecia country, when according to the real atic ing columns of the same paper 1 ve one should say they were any bette But such claims are being, and had been made. Let me quote a few these claims : sh

"Heretofore I could only asse that the bees were superior, that the would store more honey, but I cou give no reason why, except that the trait had been developed by years selection and careful breeding; now I can say why, or at least, g a reasonable reason why."

And what is that reason? have very long tongues." (Gla

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ings for Jan. 1st, page 32). If there was any thought about red clover in the author's mind, no hint is given to that effect.

"The fact begins to dawn that bees, in order to make a better showing in their hive than the bees of another, must have long tongues." (Gleanings for 1900, page 882). These words are given in connection with bees living in the State of New Mexico, where no red clover grows, it I am correct. "It is the old story. In every case where we have longongued bees we have good honeyratherers." (Page 881, same number of Gleanings). Not the least hint at ¹⁶ ed clover here, either. "We have ¹⁰ now learned the secret of their great ¹⁰¹ how learned the secret of their great (the honey-gathering qualities. It exists, ⁰⁰¹ is I supposed, in the great length of ¹⁰¹ heir tongues." (Gleanings, page 813, ¹⁰⁰ heir tongues." (Gleanings, page 813, ¹⁰¹ heir tongues." (Gleanings, page 813) Gleaniugs, 1900, page 814). "Long orgues and good working qualities o together." "The evidence is still ling up, to the effect that longdso An rem Idin ngued bees are the ones that get ver e honey." wit

And so I might go on giving quotion after quotation of statements ade along this line, without any ecial qualification, or, if any qualirations have been made they ve been so hidden under a of rubbish, or so twisted at the reader is led to believe that ng-tongued bees are just the thing should have if he would succeed. matter about red clover, or in at portion of the country he rees.

Now, as I hinted in the start, longgued bees do have an advantage side of the red clover districts, or y do not, and to give misleading tements, or those actually false, is hething that our bee-papers in the sent day should not stoop to

doing, not even when the motive of gain prompts its advertisers. I am satisfied that long tongues are only of advantage to those in red clover districts, if they are of any special advantage anywhere, for the reason that I have repeatedly had colonies that I considered hardly up to the average during certain seasons, (and would so mark the hive, preparing to supercede their queens in futre), that the very next season would go ahead of many others which I had marked as the best I had in the yard. And such reports have come to me from many bee-keepers in other localities.

Then, there is another thing which casts a shadow of doubt on this whole measuring matter and that is that many admit that there is nothing of minute exactness about it. Undoubtedly, a bee with a tongue only 50-100 of an inch long can be told from one having a tongue reach of 20-100; but with the most exactness and the nicety of the instruments used at the Medina establishment, we have this strange admission by E. R. Root, found on page 579 of July 15th Gleanings for 1900:

"All the tongues I measured would reach easily 15-100 inch. By exerting a little pressure on the head of a decapitated bee just chloroformed I could get most of the tongues to stretch to 18-100."

With such an admission as this from one who has all the paraphernalia in his establishment for nicety of work, what can be expected from the thousands of bee-keepers that Dr. Miller would have set at this work? And so one of my correspondents can be excused for asking me the question, 'Do you not think that one of those queens advertised on page 240 of the American Bee-Journal at \$10, could, 'by exerting a little pressure,' have its tongue

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stretched so as to make a \$25.00 queen of it ?"

There are times when it is necessary that a "halt should be called" by some one, and as no one has seen fit to do this, I have felt it my duty to do so, that too much money need not be sunk by this latest fad, even if we do not call it a fallacy.-American Bee-Journal.

Onondago Co., N. Y.

Improvement on Veil.

Take a piece of about No. 12 wire or lighter, and bend into an oblong square about 9x12 inches, (a circle might be just as good). Sew this to the face of your veil, stretching the face of the veil across the square as you sew it on. Instead of slipping the lower end of veil under the suspenders, put a drawing string at bottom and draw around the neck. This applies to the No. 1 or 2 veil commonly shown in catalogues of beekeepers' supplies. The wire keeps the face of the veil from falling in folds before the eyes, and thus obstructing the view ; and being fastened at the neck, gives a more free use of the arms and head.

Try it and be convinced. It will do you more good than a bottle of Swamp Root .- S. E. Miller, in "The Progressive Bee-Keeper."

Dr. E. H. Thurston thinks he has found a true antidote for the sting of bees. It is a carbonate of ammonia, powdered and kept in a tightly corked bottle. When a sting is received the surface over the wound should be wet and a small amount of the powdered carbonate applied. The pain is instantly relieved, and the injured place never swells.

Prices on California Sage Honey.

Southern California will not have the big crop that was expected earlier in the season. The rain fell short at just the critical time. But some of the buyers and commission merbeen m chants are trying to cram the idea into bee-keepers that the yield has have h "been tremendous," and in consewho ha quence, are making low offerings. A dozen. few who need ready money may have they ar to take advantage of the low market: from : but I am satisfied that prices will ad-What] vance a little later as soon as some small v small lots are sold. But I know of abroad some large lots that will be held till Those . better prices are obtained.-Gleanpursuit ings. by thes

Honey Imports.

The value of honey imported into United Kingdom during the the month of June, 1901, was £ 2,404.-From a return furnished to the Brit ish Bee Journal by the Statistical Of fice, H. M. Customs.

Mr. James Armstrong, Cheapside District No. 8, writes: "I find that as a general thing the honey cro has been fair in our district. Som places promised a big crop, but drop ped off very short. At my out yar I got no surplus after July 4th, but at my home yard I got my large vield. I would advise all those has ing honey to sell, not to fall over of another rushing it to market at low price."

A grocer at Dantzig, Germany,h been condemned to a fine of \$18. for selling manufactured honey stead of the genuine article.

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0UT APIARIES. – PROFIT AND LOSS.

(Fifth Article.)

G. A. Deadman, Brussels.

It is said that " fools rush in where angels fear to tread," so I am thinking, Mr. Editor, that it would have been much more in place could we have had articles dealing with this subject from some of the "big guns" who have out-apiaries almost by the dozen. We take it for granted that they are managed entirely different from anything I have described. What I have written refers only in a small way to an apiary at home or abroad without natural swarms. Those who are engaged with other pursuits can manage a small apiary w these ways and still attend to their egular business. I would say, howver, that frequently in bee-keeping, s with the weather, "all signs fail, othat what works charmingly one eason may be anything but so nother. I found this season that ome colonies, unlike last year, seemrit to prefer the brood chamber for Of oring honey rather than the surplus partment, so that frames of foundion that last year would have been artly neglected, this season were id led, or nearly so, with honey, tha creasing the surplus but, of course, CTO creasing their winter supplies. om promised in your last issue to give TO estimate of the time given to, or var profit and loss of a given number b colonies, in an average season, in rge average locality. hay

Temember on one occasion after Miller had secured a crop of they the editor of "Gleanings" put question, "Now, Dr., how much te did you give to securing this tey?" I never remember seeing answer to this question. We quently see in the journals how my lbs. of honey a given number textracted in a given time, but I

have never yet seen an estimate of the time required to catch and cage a certain number of queens, or to make as many artificial swarms, or to destroy all queen cells, or if you like, the time given to an apiary from the beginning to the close. I am not prepared to say which would take the most time, an apiary run without natural swarms or one run with them. I know this, however, that in many cases I could artificially swarm, and prevent a colony from swarming, in much less time than it took to have it do so. Natural swarming is ahead in one respect at least, which is, that in a properly managed apiary many colonies do not swarm so that unless necessarily absent from an apiary for days at a time, I would not interfere by caging queens or any way I have described to prevent it. I am not sure, after all, whether we can arrive at anything very definite as to time required to find and cage a queen, or other things, because a great deal will depend upon the fixtures." If your frames are "readily movable" with the top bars (and sides too) free from burr and bridge combs, then much greater speed can be attained. The apiary I base my estimate upon (it will be fairly estimated) is one that contains frames that I purchased with bees on them. They are a standing witness that deep top bars will not prevent bridge combs when not the proper thickness. These are only 3 thick though 11 in. deep and the consequence is they are almost filled with bridge combs, and too frequently attached to the sides of the hives as well. It may be that some of these "lightning" fellows will think I am altogether too slow; well, I would say that those who know me best do not think so, and the party who is now managing the Owen Sound apiary is not by any means slow, and

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the care of this small apiary of 24 colonies has been between us. The day we caged the queens he started on his wheel and began work about half-past one. He took a lunch with him but he did not even take time to eat it, lest under the shade of the big maples he would lose sight of the queens before sunset. Well, he got through with finding and caging these but had no time to spare. I would say, however, that it was a windy day and the bees were not only numerous but cross, with two or three colonies of bad hybrids thrown in. In nine or ten days it took nearly as long to examine carefully and remove all cells, and I have found that to examine for queens, and make divisions, takes well on to 6 hours, or fifteen minutes to a colony. This is, of course, when every colony requires some attention that we have to go to the brood nest to do. To go over one hundred and fifty colonies may be an easy matter early in the season. compared to one-fifth that number at swarming time. I first intended including the time and expense of going back and forth, but I will purposely omit this, so that it will apply to a home apiary also, leaving those who wish to figure for themselves the extra expense or time, should they decide to establish out-apiaries in their neighborhood. I look upon a beekeeper who understands his business as a skilled workman and entitled to good pay, not only this, but there are only certain days in the year that he can work with the bees and therefore requires extra pay on this account. Our estimate will be based on one dollar per hour for every hour spent in the apiary on work that can only be done when the weather is favorable. Any work that can be done indoors by hired help, or otherwise, can be estimated accordingly. It is supposed you will "make

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hay while the sun shines," and although ten hours may be considered a day's work, you will, during the busy season, be engaged from twelve used to to fifteen hours, i.e., if you have tombs, many bees to look after:-

April-Examining to see if sufficient food supply; crowding up when necessary and cleaning bottom boards of weak colonies and to see if all have queens, 5 hours .. \$ 5 00 May-Clipping queens and when giving more room necessary, 4 hours..... 4 00 May—Giving more room when necessary either in brood chamber or surplus departnthout ment, 4 hours 4 00 as grea June-Artificial swarming and oney di putting on supers, 6 hours... 6 00 ry wa June-Examining brood (re-Tarms moved when preventing Dundan swarms) after seven days ot seen for cells, 4 hours..... 4 00 gappe June-Examining parent coln. D(ony after eight days to see if much no cells and all O.K., 5 hours 5 0 hone June-Extracting 500 pounds honey, 5 hours, self and man 57 monte June-Examining 16 colonies (made by removing the The g brood from old colony) to ions it see if queen is laying, 3 hrs. 30 t suc July-Extracting 500 pounds peara honey, self and man, 5 hrs.. 57 earl July-Removing supers and trant seeing if sufficient left for om w winter stores, and extracting eric c 200 lbs. honey, 5 hours.... 51 most Sept.-Doubling back extra n ah colonies ; reserving the best armit queens, 10 hours..... 10 larg Oct.-Putting on cushions, fixne th ing up for winter, 5 hours .. 5 awf Interest on investment, say .. 20 ten

Contingencies, extras, etc.... 6

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200 lbs. honey (50 lbs. to The wax from cappings can be used to replace broken or damaged re combs.

DISTRICT INTELLIGENCE.

District Number I.

Clover yielded well; basswood, as ar as I can learn, yielded well also; nckwheat in full bloom; the dark uff is coming in fast. A fair honey rop for the season.

W. J. BROWN.

hard, July 20th.

District No. 2.

Bees have swarmed more than abindantly in this section, and that thout filling their hives. Clover 00 as great, but for some reason the oney did not come in in a satisfac-5 00 w way. Colonies are strong and arms large; basswood bloom is bundant but my bees are quiet ; have at seen a bee on the trees. Swarm-4 00 gappears to be over for this sean. Don't know whether there will much or any buckwheat. I have 50 bohoney for Pan-American.

J. K. DARLING.

5 7 monte, July 12th.

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District No. 3.

The general result of apiarian operons in these counties to this date is such as the very favorable pearance and general prospect of earlier part of the season gave trant in anticipating. The clover om was abundant and the atmostic conditions were favorable, but most yards from which I have a able to get, a report, excessive atming stood in the way of securlarge or the best results. Then the basswood and with it came awful heat (too hot) followed by temperatures and shady, cloudy 61 s for quite a spell. However, in face of all these disquieting, disraging and disturbing combina-\$90

tions, the crop will be rather above the average of four or five years past. M. B. HOLMES.

Athens, July 27th.

District No. 5.

In our vicinity the season has been almost a complete failure.

J. W. SPARLING.

Bowmanville, July 27th, 1901. District No. 6.

Honey season over; crop a fair average; clover yield light; basswood good while it lasted. Honey first-class in quality. J. D. EVANS. Islington, July 26th.

District No. 7.

Clover has yielded fairly well, basswood very light yield, too dry and no dew at nights seems to be the cause.

Yours A. Pickett.

Nassagawey, July 24.

District No. 9.

We have had a very fair crop. Basswood has been a good crop, but I think about to a close. There is still lots of white clover and thistle in bloom. Am still looking for more.

JOHN NEWTON.

July, 20th.

District No. 10.

The flow from clover and basswood has lasted just one month, it being over at the present writing. The bees are, however, working a little night and morning on thistle, and an odd bee can be seen at times on a stray head of white clover, but the season is practically over so far as white honey is concerned in this locality. The quality is AI. The season has not reached the anticipations of many of the local bee-keepers, and is about what I expected. The crop is not large, and the advice already given is not to be in a great hurry to sell at give away figures.

F. A. GEMMILL.

July 22nd.

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District No. II.

The honey crop has been a good one: clover and basswood have yielded well; white clover is pretty well dried up now owing to drouth. Prospects for a fall flow are not encouraging, but too early to pass a judgment. Prices for honey should be good owing to less bees throughout the country than formerly. What is the matter with the O. B. K. A. sending a few carloads of honey to England? W. A. CHRYSLER. July 26th.

Division No. 12.

Basswood turned out very well. There are not many bee-keepers around here, but, as far as I can learn there was very little surplus from clover. We are having nice rains now, and hope for a good flow from buckwheat. S WOOD. July 29.

BEES AND ALFALFA.

The introduction of alfalfa into Kansas has made the state richer by \$6,000.000. But the discovery that the honey bee can feed on alfalfa blossoms has added another million. Bees and alfalfa are an ideal combination. Experiments have been made by raisers of honey bees and they report most favorably upon the blossom of the alfalfa.

Alfalfa contains a certain degree of sweetness not found in either the sweet clover or white clover. Every stock-breeder knows that in-and-in breeding will cause a deterioration in the strain of stock. Infusions of new life are required to give a new life and vigor to the breed. As it is with animals so it is with plants. Cross fertilization must take place to keep up the standard. It was once supposed that within each flower are the necessary means for assuring the formation of the embryo within the seed. The truth is that many plants instead of endeavoring to facilitate

self-fertilization, are so constructed Hone as to prevent it. Alfalfa is of this class. The pollen or fertilizing agent must be carried from one blossom and placed where it is needed in another to insure a full crop of seed. and some foreign agency is depended on to accomplish the purpose. In the case of alfalfa, currents of air are unable to carry the pollen and accom-1st. \$: plish the cross-fertilization, and most 2nd, \$ insects do not carry it. Here is where the bee is useful. The alfalfa \$10, 2: blossoms offer the bee a sweet drop. Bes and in return for the favor the bee leaves a few grains of pollen, uncon-sciously brought from another blos-Bes the mutual profit of the owner of the alfalfa and the keeeper of the bee.-Saturday Evening Post. st. \$

Honey and Apiary Supplies at the Fairs.

TORONTO INDUSTRIAL EXHIBITION. Best and most attractive display of \$ lbs. of extracted granulated Clove honey, in glass, quality to count & points, display 20 points, 1st prize & 2nd prize \$4, 3rd prize \$2, 4th prize \$1.

Best and most attractive display of lbs. of extracted granulated Linda honey, in glass, quality to count & points, display 20 points, 1st, \$5, 2nd, \$ 3rd, \$2, 4th, \$1.

Best display of 500 lbs. of liquid es tracted Honey, of which not less that 250 lbs. must be in glass, quality th count 80 points, display 20 points, ls \$18, 2nd, \$12, 3rd, \$8, 4th \$5. Best 500 lbs. Comb Honey in sections

quality as per score card to count M points, display 33; total, 133 points, 1s \$22, 2nd, \$17, 3rd, \$10, 4th, \$6.

Best 12 sections of Comb Honey, qua ity to be considered, that is to say clea sections and best filled, 1st, \$5, 2nd, 3rd, \$2, 4th, \$1.

Best 100 lbs. of extracted Liquid Lin den Honey, in glass, quality to count points, display 20 points, 1st, \$7, 2nd,\$ 3rd, \$3.

Best 100 lbs. of extracted Liquid C ver Honey, in glass, quality to count points, display 20 points, 1st, \$7, 24 \$4, 3rd, \$3.

Best 10 lbs. of extracted Liquid Clore

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Honey, in glass, 1st \$4, 2nd, \$3, 3rd, \$2, 4th. \$1.

Best 10 lbs. extracted Liquid Linden Honey, in glass, 1st, \$4, 2nd, \$3, 3rd, \$2, 4th, \$1.

Best 10 lbs. of extracted Liquid Buckwheat Honey, in glass, 1st, \$4, 2nd, \$3, 3rd, \$2, 4th, \$1.

Best Beeswax, not less than 10 lbs., lst, \$4, 2nd, \$3, 3rd, \$2.

Best foundation for brood chamber, lst, \$3, 2nd, \$2, 3rd, \$1. re m-

Best foundation for sections, 1st, \$3, 2nd, \$2, 3rd, \$1.

is Best exhibit of Apiarian Supplies, 1st, \$10, 2nd, \$5. lfa

Best and most practical new invention op, for the Apiarist, never shown before at 266 this Exhibition, 1st, \$6, 2nd, \$4, 3rd, \$3, on-4th. \$2.

Best six varietes of uses to which 05-Honey may be put in preparing articles to or domestic use, the increase they are the ikely to make in the demand for honey, mality and originality to be considered, st, \$6, 2nd, \$4, 3rd, \$3.

For the most tasty and neatly arranged xhibit of honey in the Apiarian Departthe nent, to be limited to the quantities alled for in the preceding sections, all N. he Honey to be the product of the exof 50 ibitor. The first prize in this section 1970 given by the Ontario Beekeepers' t 8 ssociation, 1st, \$25, 2nd, \$16, 3rd, \$8, e \$5 th, \$5. \$1.

To the exhibitor taking the largest umbers of prizes for Honey at this Exibition, 1901, to be awarded by points s follows :-- a first prize to count five oints; a second, three points; a third

wo points, and a fourth prize one point. 1. Silver Medal. 2. Bronze Medal. To the exhibitor showing the best and ost originality of design in setting up e display.—Silver Medal. Entries positively close August 3rd.

THE WESTERN FAIR.

Judge, Martin Emeigh, Holbrook.

The arrangement of exhibits will unt 5 per cent.

The largest and most tastefully arnged exhibit of Comb and Extracted oney, Beeswax, the product of one hibitor put up in most marketable ape, not less than 400 lbs., and dis-ct from other entries, 1st prize, \$16, d prize, \$12, 3rd prize, \$6, 4th prize, \$4. Comb Honey, 200 lbs. in sections, put in most marketable shape, 1st, 10 00, , 7.00, 3rd, 5.00, 4th, 3.00. Aquid Extracted Honey, 200 lbs., put

in most marketable shape, 1st, 7 00,

2nd, 5.00, 3rd, 3.00, 4th, 2.00.

The Prizes in each of the next eleven sections are 3.00, 2.00 and 1.00.

Comb Honey, 20 lbs. in sections, in best marketable shape.

Liquid Extracted Clover Honey, 40 lbs. in glass packages.

Liquid Extracted Honey, not clover, 40 lbs. in glass packages.

Extracted Granulated Honey, 20 lbs., in glass packages.

Beeswax, 10 lbs.

Honey Vinegar, half gallon, in quart glass packages.

Maple Syrup, half gallon, in quart glass packages.

Largest and best variety of domestic uses to which honey may be put, prepared by the exhibitor or his household, two samples of each-Canned Fruits, Cakes, Pastry, Meats, Vinegar, etc

Comb Foundation, for surplus honey, for manufacturer.

Comb Foundation. for Brood Chamber, by manufacturer.

Display of Queens put up in shape to be readily seen by visitors.

Queen Cage admitted to mails by postal law.-Diploma.

Assortment of glass packages for retailing extracted honey .- Diploma.

New and most practical invention for use of Apiarists .- Diploma.

Display of Honey-bearing Plants. named and labelled.-Diploma.

Display of Apiarian Supplies.-Silver Medal.

COST OF SEEING THE PAN-AMERICAN.

From the Roller Mill

Extravagant stories as to the cost of board and lodging in Buffalo have been going about the country and may have deterred some of our readers from planning to visit the Pan-American Exposition.

The only basis for these stories is the fact that a few of the larger and more fashionable hotels are asking, and getting, rates as high as eight to ten dollars a day, which certainly is enough to stagger a man But there are of moderate means. many respectable hotels and countless boarding houses and private homes where one may lodge comfortably for not to exceed one dollar a

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THE CANADIAN BEE JOURNAL.

night, and meals can be procured both within and without the exposition grounds for prices little if any above the normal. We say this after careful investigation, and we have placed millions through our Accomodation Bureau at rates which fully sustain our statement. Leaving out the cost of railroad fare and sleeping car berth, which varies with distance, the day's list of expenses in Buffalo for one person may be set down as follows:

Lodging	\$1.00
Three meals	
Admission to grounds	50
Incidentals	50

Total for one day and night \$3.50

These figures are neither high nor low. They are moderate and reliable. By little effort eating-places can be found that will bring the item of meals considerably nearer one dollar. Under incidentals we include such expenditures as street-car fare; one or more midway admissions at ten or twenty-five cents each; light refresh ments at five cents and upward, etc.

CANADA'S GREAT EXPOSITION TORONTO AUG. 26 TO SEPT. 7, 1901.

LIBERAL PRIZES FOR HONEY

AND APIARY SUPPLIES

ENTRIES CLOSE AUG. 3.

Applications for special spaces should be made at once.

For prize lists, etc., address

A. SMITH, H. J. HILL, President. Manager, Toronto.



The Gold Medal Special Prize List is bigger and

\$250,00 offered in cash prizes by the Massey-Harris Company.

Special Attractions comprise Balloon Ascensions

Special Attractions comprise Balloon Ascensions and parachute leap, trained elephants, slack-wire artists, world famous dancers, all the finest specialties which money can secure. The spectacular in the evening will be a repre-sentation of the "SIEGE OF TIEN TSIN" and the destruction of the Boxer stronghold. All the soldiers of the different nations will be correctly uniformed and the representation will be the uniformed and the representation will be the finest ever placed before the public.

Special rates on all railway and steamboat lines both for visitors and exhibitors. For prize lists, entry forms and all information.

address the Secretary

E. McMAHON, 26 Sparks Street. WM. HUTCHISON, Ex-M.P., President. Treasurer.

WESTERN FAIR. LONDON. SEPTEMBER 5TH TO 14TH, 1901.

Entries close September 4th. Buildings painted and renovated Liberal Prizes and enlarged purses All departments well maintained. Apiary a prominent feature.

New and original first-class specia attractions.

Excursion rates on all railroads. Send for prize lists to

COL. W. M. GARTSHORE, President.

> J, A. NELLES, Secretary.