

APIARY.

OHYLCERE OF THE ONTARIO BEES
KEKPERS' ABSOOTATIUX.
Frallont, R . McKilght, Owon Sound. ${ }^{1 \mathrm{At}}$
 Treas., K. F. iutteruan, Fiohervilio.
$\underset{\text { Ere: J. D. Hentive Conittee-Dr. Duncan Em- }}{\text { Woolytock; D. A. Sones }}$ Beetoi; D.Chnliners, Museclburg: Dr.Thom.


FROST IN THE 13EESHOUSE.
G. K.. of Navan, Ont., writes: "I looked at my bees recently and found them all in good condition. I keep them in a bechouse, and the thermomete. has been standing at 26 to 34 degs. all the winter. Frost has found a Iodging place all round the house inside. Will it do the bees nny harm, when the weather gets warmer to melt the frosty 110 w would it do to sweep off the frost? I have chaff cushions.'
[The best way to get over the diffcuity of frost in the house would be to very gently raise the temperature, so as to avold too great un amount of dampness. The temperature of a beehouse should not be ullowed to go lelow 40 degs. all through the winter, and then the evil spoken of would not occur. However, it is satisfactory to know that so far the hees are in good condition.-Ed. 1

I'ue laronces Burdette-Coutts, who is not only the richest lady in the world, but the most libernl one, and worla, but the most is nlso the lresident of the British Bec-licepors' Associatic, n, gave a New 'ears' dinner to cight hundred of her tenants, and afterwards personally presentell a gift to each one of her grecsis.
JUDICIOUS USE OF COMH FUUNDATION.
Mir. Sylvester Mrarshall, of Pratt's Fork. O., propounds the following "Which is the best kind of cumb foundation to use for getting exiracted honcy-drone or workery How thick sholls
sults?

Dione comb foundation las been used, to some extent, but now it is entirely discarded; the worker-cell comb foumdation answers cvery purpose, and as drone cells in a hive is a cemp-
tation to drone-rearing when such are not wanted. it is preferable not to have it there for ndy purpose.
Experience has demonstrated that conib foundation, for the lirood chamber and eatrseting, should be about 4t fect to the pound, with a thin bnse und beary sitic walls. This is the most desirable for economy in the use of wax and rapidity of comb-building by the bees.

Considering tive stat giren to a colony of bees, by a judicious use of comb foundation, the certainty of istving the combs nll built straight, the rase with which the number of drones proluced by a colony may be controlled, nu one can justly intimate that wo are not making prodigious strides in placing lece culture among ithescientific and profitable occupations of the present progressive age.-Am. of the prasent
Bec 70 urna!.

THE ETES OF A WORAEEA BEX
Mr. C. 'Lbeilmann, of Theilmanton Minn., writes as foliows: "In examIning the heads of bees with the mi. croscope, I found the sides. Which ap. pear to the bare cyo as if the ligh brown spots were the eycs, but found these two spots all thinly covereal with bair, without any glassy, bright or clear spot whatever, and tho okin, or cutside covering appears like grained teather, when looking with the bare eyc. Looking clooer, with the micro scope, I found on top of the head three little, round, glassy, skinny spots; ono is in tho centro, a little
alicad of the twe, which are one on ench side. There are no haira close around these spots, but a bunci of hair betwcen the three, and the hend las to bo held in a certain pooition, in order to see all three at once. If these three spots are not the eye, where are
they? 1 have examived spiders heretofore, and found from four to six of such little glussy spote on their lieads, which I would call eycs."
l'he large eyes which he saw witheyes; the three small ones are the sim. ple cycs.

## A HARD WINTER FOR BIES.

We are pleascd to notice that the snow storms, blizzards and very severe weather of the past five or six weoks has now given way to a less 1 igorous atmosphere. The reports for weeks
havc been about delaycd and blockaded trnins, terrible snow drifte, and inse of life.
This state of things not only obtaine here, but also in Eurnpe. England was been visited by storms more severe been lashed with the furious waves; many ot her stately onks and pleasure bowers have been leveled to the ground, and much of her shipping has been destrosed.
Of course the bees bave suffered as well as other stock. For ncarly two months, here in the North, those wintered on the summer stands have been imprisoned liy storm and tenipest: and. ninally, their hives were envelopcd in an icy winding-shect.

In some places, disease lias set in, and many may yet die of that fearful bee malady-dysentery.
This winter will try, to the utmost. all kinds of out-door wirtering. What the flaal results may be, can, as yet, only be conjectured.
Many alrcady lave asked us what effect all these troubles will bave on the bee industry. We reply: Just the same as it dous on the farmer, manu. facturer, merchant and stock-men Will they become discouraged and give ups Nol but with redoubled cuergy the will atart anew and retrieve their losses
Because the atorm king has desirnyed thousands of vessels and many cargocs, will the mariners forsake their calling? No! but with dauntlese courage they will pursue their labors and bid defiance to the elcments

Winl the fruit culturist cut down his trees, "cast them into the fire," and look for some busincess that has no drawuacks? No! he will plant agaio, watch, cultivate and hope for the best!

The bees have been compelled to fight for existence; is it any wonder thut they have suffered to a greater or less extent, governed by their location and the surroundings, together with the care and protection afforded them by their keepers? Instead of being discouraged over the situation, fe should feel that our bympation are nceded by tho poor side with warring elements, in a mad side with warning elemenis, in a mad
carec of denolation. We abould adicareer their pluck, energy and ondurance, instead of being cowardly enough to try to find an entracco for ourselves to that dungeon over whow portals is written the stinging motto-
"Blastod Hopes." 'There are no such Wordas " blanted hopes!" in the rocabulary of mon of true worth. Roverses only atimulate "progrcusive men" to further diligence.
When the frult grower, the farmer the merchant, the suilor and the manu facturer become discouraged and "give up the buttio," it will be timo enough for the beekceper to think about belig discouraged! Until then. give uo hood to such a bugbear as "Blestod IIopes," but, by perseverance. pluck anu cnergy, hoid on; for ance. pluck and caergy, hode oncepers. the average years, for boekcepers, and honey." as for any business a man can eagage in.

## DREMEUY FUR DYAERTERY.

MLr. J. M. IIicks, Battle Ground, Ind., writes as follows to the Grange Bulletin, concerning this disease and remedy for it

Dysentery is usually brought on by the bees feeding upon sour or impure honey. It is aleo frequently produced by being disturbed in somo way just betore a sudden change in the tempanature, which, if very cold immodiarely after they have flled themsolves, you may be quite sure your beee will havedysentery. We suggest the following remedy:

Trake of good granulatod sugar, 4 lbs, and just enough of water to make it into a mash (not syrup) and add 40 drope of carbolic acid, stirring so as to incorporateall thoroughly, and then mould lnto cakea so as to feed your bees, by laying two or threc cakes of the candy on their brood.frames, and your bees will, in a few days, have reliaf. This is the beat remedy I have ever found after the disease has thoroughly set in. It is a well-known fact that carbolic acid is one of the
most powerful disinfectants we have most powery.
in chamistry.
"And now I wish to further say, I have at all times believed that an ounce of prevention was worth at least a pourd of cure, and in order to
be more sacceasful in future in prebe more sacceasful in future in preventing this malady. We recommend a ree use of rock salt to be placed your bees, and fill with water and cols so that the bees will visit it without danger of drowning. This remedy I danger of drowning. sure preventive for dysentery as well as the drealful disease called foul brood, which has prover to be, with some, very difficult to manage."
PROEITABLE UAE OF FOUNDATION,
OR OLD OUMBE, WREN THE SOPPLY 18 nNMETRD.
It often happens that the apiarist wiaber to give each swarm, when hived, a start in the way of framea flled with comb or foundation, but does not have enough of such to give a hive full to all the awarms be expects will isulue, bence he wiahes to give four or five frames to each, or near that amount. To this end he placem his four or fivo fremes of corab in the contre of the hive, and fills out each side with emply frames, and places his swarms upon them.

As the queen has plenty of room 20 Iay in thene combs without the bets building more, ahe goes to work deponiting eggs. As honey is coming in at the timo, the beet must have a place to store it, so they fll the empty frames with atores, which are alwayk of the drome sive of celly the same is hive woula build il hiverolife queen. Hence, tho apiariat becomes diagusted Fith the uee of old combe and declares that they are of no use to Frarma, an a colony not helped at all wh mocomplikh mone

This whes about the decicion I came to, when ginitirying to ase alimited number of combe for a swarm. Therefors, 1 cectaed to une s hive ind
of comb; or hove at all. I soon found
that thewo swarms hived on full sets of combe so far surpamed thone not helped at all, that I wiabed for a way to help all alike, if pomedbla. I had also noted that by the une of the divi sion board I could generally sot from four to five frame filled with nice straight worker comb, aftor which could get more oi loun drone com built by a swarm having no help at all by way ef frames of comb.

I studied on this matter during the winter, and the result wan that the next scason found me placing ten frames, each having a nice starter of worker comb aloug the top bar, in ench bive; I placed a diviaion boand in the centre, thus loaviog ive frmen on each side. This divicion board dil not come quite to the bottom of the hive, but allowed room for the bees to pase under it, as they deaired. Into theso hives I placed my swarma, and in whichever side the queen chasoen to go, there the been commanced work. Is fast as tha been could build comb it was flled with eggs, heïce rothing but worker comb wha bullt
After the awarm had boen hived 48 hours, I put on the boxes or sections which were immediately taken powe seabion of, thus securizs the five frames filled entirely of workar comb: for it any drone comb was built, it Wan in the sectiona. AB moon walthem five frames were filled (which wa readily ascertained by the bees coma meacing work on the vacant side of the live), the frames in the racan side of the hive were taken out and the division board moved to alde of hive.

I next spread these combe apart, and put in each alternatio space frame of comb, thus securing a full hive of nice, straight worker comb. As I used only nine framee to the hive this gave the swarta four empty comb.
I thus sccured two objectin, a hive full of all worker comb, and the been taking powersion of the coctions in the alortest pomable tine. I hare wll pleased with it, that have used It for yearn and find it
works equally well in uaing comb works equally well in uaing comb
foundation where the apiarist does rot foundation where tho apiariat doci pert hive of it for cacin swarm.

## ECGOS 08 1ARTE, whica?

Mr. O. E. Cooley tells us that heen remove eggs from one cell to another and then states why he believen they do so, giving the negative alde as prool of his position. There are other waya by which the colong might have obtained a laying queen, besides the ope he gives, such as a quean entering the wrong hive, or a small awarm, with a queen, going into if, etci; but, al that is not the object of this article, I will not po into detal.
He says the "bees must have moved an egg "' I take it for granted that, if the bies moved anythlog. it was a larra. That bees do somcime re move egge I admit, but thoy are no apt to do so, whert here are larva at their disponal, as there was in the caso given by Mr. Cooley.
ro illustrate: A fow yeara ago 1 had a colony which was "bent on swarming." and X was equally "bent" on their stayling whero tiey were They had coine oul twioe, ard I had put them back, cutting out the queen colls each time. Arwor thaying fipe days they came out agnin, and while they were out. I cut out all the queen could find that midat look like an em bryo queen cell, when thoy returnea. When about hall of the swarin had entert 1 the hive, out came two swaran ircm other hives, and laedend of alighting, they amply pumed out of thoir his tha turnlag gwarm. An the quem edippod, the
thove I had dotermined alsonid not be

