...The

Canadian Bee Journal

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BRANTFORD, ONT., APRIL, 1901.

WHOLE NO

Annual Meeting

Twenty-First Annual Meeting Bee-Keepers' Asso., Ontario. HELD AT NIAGARA FALLS, DEC. 4, 5, 6, 1900,

QUESTION BOX

Opened by Mr. John Newton, Thamesford.

What are we going to do for bee asture?

Mr. Fixture': The attack began is year again by the caterpillar, at there is a parasite that is killing so that our trees came out all right is year.

Mr. Darling: There are two classof worms destroying our bassods. We had a terrible pest in r section a year ago this last sumer, in the nature of what is called the forest tree tent caterpillar." It de our basswoods look as if they I been riddled by hail.

Ir. Post: That is what is called tentless; They do not build in

r. Darling: Instead of building at in the fork of the trees they their web right along the limb, are found in clusters of trees, ever in forests. I presume it is is reason the term tent caterhas been applied.

Brown: Two years ago this terpillar was very destructive

on nearly all kinds of green foliage, but this last season very few of them could be found.

Mr. Darling: There was a parasite around our section; I don't know whether others are troubled with it or not; it was a little larger than the one referred to by Mr. Fisher.

A year ago this last fall, just when the tent caterpillars were in the helpless state of the cocoon, we had a large flock of blackbirds visit us for about a half day; they made a terrible chatter, but they hunted in every nook and corner and destroyed every cocoon they could find. They are what is termed the crow black bird.

Question No. 2. Which kind of bees are the best?

Mr. Newton: That is a pretty hard question to answer. I suppose we all think we have got the best kind of bees. For my own part, I have had the cross between the Italian and Black and they seem to be satisfactory to me.

Mr. Post: That would'nt answer in my case. I want the Carniolans crossed with the Italians, and a very small proportion of Italian at that. In my experience this season with two apiaries one having 110 Carniolans and the other 108 Italians, the Carniolans through the whole season doubled the amount of honey gathered by the Italians. Besides, I got no

increase from the Italians and I got 65 from from the Carniolans.

Mr. Hutchison: How about the

locality?

Mr. Post: I couldn't see any difference. They were five miles apart. When they were taken to the Murray Canal for Golden Rod and Buckwheat there was no difference at all, I am sure, because they were within a distance that they could reach one another.

Mr. Hutchison: You prefer the

pure?

Mr. Post: No, I like them crossed, I began with pure queens and I let them cross with the Italians first, then I raised queens from these and they would mate with what we call pure carniolan drones.

Mr. Hutchison: There would be a

preponderance of Carniolan.

Mr. Post: Yes. I got the first six about July, and on the buck-wheat I could see a difference between them and the Italians; there was no comparison between them. And ever since they have wintered better and have built up better in the spring. That is my experience

since 1807.

Mr. Gemmel: There is a great difference in Carniolan blood. I find there is a great difference in the working qualities of bees from different Carniolan queens, just as there is from diffent Italians queens. Mr. Hall would tell you the same thing if he were here. He was at first greatly tickled with the Carniolans and I dont think he cares anything about them now.

Mr. Post: I could see no difference.
Mr. Gemmell: You probably got
a good strain first.

Mr. Hutchison: Where did you get yours, if it is a fair question?

Mr. Post: From Mr. R. F. Holterman. He was visiting at my place and we went out hunting one day,

the wind blew very hard and we were dissapointed, he told me if I would send him a little string of game some day he would make me a present of half a dozen Carniolan queens. I sent him along some ducks, and he wrote me the next summer, about the middle of June, asking if I was ready for the queens and I told him yes, I was: he sent them along and I introduced them. I don't know where they came from. I have kept bees as a specialty since before the organization of this Ontario Bee-Keepers' Association and I have tested all kinds of bees and they are the only bees for me to-day.

Mr. Morley Pettit: Do you find any difficulty in hiving the swarms?

Mr. Post: We don't have any swarms to hive. When the bass wood is in bloom or about half over I make two frame nuclies and give each a young queen; then I move them to buckwheat, after they are moved I go through these and give them two more combs from the old colony and just let them go, and they make the very best colonies that I know of.

Mr. Hutchison: Carniolans has been called great swarmers.

Mr. Post: I don't find them s It was a case of superseding quen that caused any swarms I had.

Mr. Gemmell: I don't think the is another man here who coul handle the bees Mr. Post does a have so few swarms.

Mr. Post: My neighbors do it. Mr. Hutchison: What is you surplus from?

Mr. Post: Clover, basswood a buckwheat.

Mr. Craig: As most of you aware I have been connected to the same bee yards as Mr. Hollmann and I perhaps know a little the Carniolans referred to. We had the same breeds in our of

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yards and yet our experience is somewhat different from that of Mr. Post'. It is strange. It may be locality or it may be in the line of management; my own opinion is that there is more, perhaps, in the line of management than in locality. We use the eight frame Langstroth hive exclusively, Mr. Post does not.

Mr. Post: I don't think there is any good in the eight frame Langstroth, mine is a larger hive.

Mr. Craig: There might be a point here worth considering.

Mr. Post: I give them plenty of ventilization.

Mr. Newton: I have always followed Mr. Hall's practice in breeding queens. I breed from honey producing stock; when I find a good queen I keep her and breed from her; that is the way I think it should be done in every yard.

ey are Question No. 3. Which is the d give best size for hives, 8, 9 or 10 frame? he old Mr. Newton: I have just heard and the Ir. Craig say that his is eight frame that Langstroth" and Mr. Post that his are rger. Like the answers of the last nestion; we all run our favorite. I man eight frame and I think mine

quest Mr. Post: I use a nine. If I were d. d. the bould have a ten frame.

Mr. Dickenson: I run a nine loes a mich is between an eight and a ten,
I think I must be right.

lo it. Mr. Smith: We have nine frame is yours. I think a ten frame hive guld be heavier than most of us rood a suld want to handle. I find mine state of the stat

you de a mistake; I said an eight.

a little Web y ten frame hives. I have some our destroy frame but I prefer a ten frame gestroth for extracting honey. I

have got "Kidders" and there are some eight frame hives that are equal to a ten frame; mostly all of them are.

Mr. Newton: I remember working in a yard where I think there were somewhat about ten different sized frames, and I think there are a good many that way.

Mr. Holmes: Before that question is dropped would it not be helpful if the house were divided for a show of hands so that we might really know which hive was received with the greatest amount of favor, the 8, 9 or 10 frame?

Mr. Couse: That is a difficult matter to decide. When you mention a hive, what hive do you mean? I venture to say that there are three or four here who use the "Richardson", which is the best hive to be used, of course. (Laughter)

Mr. Evans: Most bee-keepers think they have the best. I am an exception. I have the nine frame Langstroth hive and I don't like them at all, and, only for the expense, I would change. It is all right for the summer time. I have had a little experience with few of the old Jones' hives last season and they wintered the best last winter, and I had the most surplus honey out of them of any hive I had.

Mr. Fixture: We have been trying to test and prove which is the best, the eight frame, or the old Jones and two other hives. Of course, the past two seasons have been so very poor we have not drawn any conclusion. So far the Jones' frame gives us as good results as any.

Mr. Newton: I am afraid if our friend Hall were here he would be apt to get up and say "Quinby."

Mr. Gemmell: Or Hedden. Mr. Heise: I will take Mr. Hall's

place. (Laughter)

Mr. Newton: If the members wish to take a vote on the question

I am perfectly willing but I don't think it would do any good.

Mr. Heise: This is a question that has been discussed in the journals and at meetings all over. It is a matter that will have to be decided by every bee-keeper according to the locality in which he lives and according to his particular management.

Mr. Holmes: I will then withdraw my request for fear of getting further and further in the haze. (Laughter)

Question No. 4. Are Propolis Quilts an Advantage or Disadvantage on either Supers for Section or Extracting Frames?

Mr. Newton: I think the question might be answered yes and no.

Mr. Gemmell: It is a disadvantage all around.

Mr. Newton: I don't know that there is any particular disadvantage in them when it comes to extracting honey, but in the case of comb honey they spoil the sections and makes them unsaleable.

I read an account in one of the journals not long ago where propolis was becoming in great demand. If so we will have to try and get it on our quilts and scrape it off and sell it to our doctors.

Mr. Darling: I thought the question would be quilt or no quilt.

Mr. Gemmell: I should say no quilt at all.

Mr. Smith: Would you use a cover

instead of a quilt?

Mr. Gemmell: Yes, every time. What is the use of the quilt? You can't use it on top of the sections; it is of no use except to soil the sections.

Mr. Smith: Not Necessarily. If you use a proper bee space you will not get prospolis on it at all. Use an oil cloth.

Mr. Newton: That is a quilt all the same.

Mr. Post: I think a quilt is a perfect nuisance for either extracted or comb honey—a dobby, messy thing. A honey board is away ahead of that. In using the quilt for extracted honey the bees will build up propolis right along the edge of the top bar to the quilt if it does not lie down perfectly and when you go to put the frame in the extractor there is a great lot of propolis to scrape off. It is always in the way, mussing up everything. Whereas, our top bars will be perfectly clean without a I never use a quilt and I really think, from what I have seen of them in other yards they are a great nuisance. There is one-sixteenth of an inch space between the honey boards and the top of the frames.

Mr. Darling: You don't live in my section.

Mr. Smith: We use the quilt that gives that proper space, too, without having my propolis on it, and if the quilt is made, as we make them, with half inch bevelled slats, and the cloth glued upon them and then painted, it will last for many years. It gives the proper bee space and we have no surplus propolis at all where the space is right. I would be afraid in a location where it was not shady that it might be too hot without a quilt. The slats afford a certain amount of ventilation.

Mr. Post: It is quite cool too, in cold weather. I should think the board would be the best, take it all round.

Mr. Gemmel: I never have had any comb melt down on account of the heat. A shade board is laid of top of my cover.

Mr. Smith: We don't find anything of that kind necessary. We use a quilt instead of a shade board.

Mr. Gemmell: I want a shade

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board every time unless I am under

Mr. Coggshall tells me he uses oilcloth. Does he use it on sections? Mr. Coggshall: Yes, on top of the sections and then a Brussels carpet on top of that.

Mr. Smith: Don't you find a cer-

neath, you have got to put your knife in and break open the whole top when you have the board. the quilt you have simply to double it back and peek in and then there is that great cracking sound with the board.

Mr. Gemmell: It is not necessary



THE ONTARIO BEE-KEEPERS AT NIAGARA FALLS

[From photo by W. Z. Hutchinson, Flint, Mich.

in amount of propolis along the ge of the sections?

Mr. Coggshall: Yes, some.

Mr, Newton: I feel sure myself at the proper way is to have quilts Mr. Smith mentions. I find a eat advantage in using a quilt. r instance, take it in the fall or in spring when vou want ok to see how full they are under

to have any cracking sound at all.

Mr. Darling: Mr. Hall one time said he had a strain of bees that gathered no propolis and he very kindly gave me a queen. I thought that the strain of bees or the locality might have something to do with it. The queen however didn't do any better than my own although she was a fine bird and her bees put in pro-

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polis as well as any others.

Mr. Newton: Mr. Post uses a quilt in the shape of a honey board, Mr. Smith and I a board and yet there is cotton under it and can be easily rolled up and easily laid down, every section is perfectly clean witout any scraping. The same in extracting super, the frames are just as clean as the sections are on top.

Mr. Heise: Another advantage of the quilt in examining a hive is that you can loosen a quilt all but one corner and you can put a little smoke in there and drive it right down to the brood chamber, but you can't do that with a board.

Mr. Newton: We will ask those in favor of quilts to rise to their feet. [Seventeen rose.]

Mr. Newton: All in favor of no quilt rise. [Twelve rose.]

Mr. Newton: I was on the opposite side; that made eighteen.

Question No. 5. Is Golden Rod a Good Honey Plant.?

Mr. Newton: All the experience I have had in connection with moving bees to fall pasture in late years was to swamps where there was Golden Rod. I know that that is the plant that gave me the greatest yields of the season and I can only say from my experience that I think it is a good honey plant.

Question No. 7. How to run "Out Yards" for Section Honey without an attendant?

Mr. Newton: This is a difficult question, I have no doubt that would be a puzzle to everyone of us present, I feel myself that an out yard for section honey cannot be run to advantage without having someone in attendance, especially in the fore part of the season. I believe one might be there during the swarming

season and attend to the swarming, or if the queens are clipped take note till the apiarast comes on the following day; but I don't believe it is an advantage to run an out yard for comb honey without an attendant.

Question No. 7. Does Any Person Present Know if There is Much or any of the Disease Known as Black Brood Anywhere in the Province?

Mr. McEvoy: There has been more or less of that in this Province for over ten years.

Simcoe County Bee-Keepers' Association.

The first annual meeting of the Simcoe County Bee-Keepers' Association was held in the Council Chamber, Barrie, on Saturday, February 16th, 1901. A number of leading beekeepers were present and a very pleasant and profitable time was spent. Quite a number, through sickness and snow blockades, were prevented from attending.

The following members took part in the program:—Mr. A. A. Bell, Oro Station; Mr. J. C. Morrison, Painswick; Mr. S. Spillett, Nantyr; Mr. J. E. Holt, Newton Robinson; Mr. Dennis Nolan Newton Robinson.

The following officers were elected for the present year:

President, J.L. Warnica, Painswick Vice President, Jas. Elrick, Ferga sonvale.

Secretary-Treasurer, Dennis Nolan, Newton Robinson.

Auditors, J. E. Holt, Newton Robinson, and Hy. Couse, Cookstown

The next meeting will be held in Baraie on Saturday, October 19th 1901.

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OUT APIARIES.

By G. A Deadman, Brussels Ont.

In dealing with this subject I can only do so from my own experience. I would very much like to see some articles on it from those who have had more experience than myself. I would explain also that what I may say refers to an out apiary where there is no natural swarming and not to one where the bees are allowed to swarm as in a home apiary, because the management would be practically the same. What we want discussed is an out apiary where there is no watching for swarms or loss because There must be no guess work about it either, as the loss of swarms means humiliation to their owner and a serious lessening of his profit. In dealing with this subject there should be many things of interest to those who may never have any intention of establishing an out apiary of their own. I would invite discussion, Mr. Editor, so that we may all be benefited thereby, and I to have one or more out apiaries? We would propose that criticisms and suggestions be made quickly while it is The first quesresh in our minds. ion that confronts us is, Does it pay have one or more out apiaries. We are all agreed that it does not pay inless you have more bees in the tome yard than are required to ather the honey there, and this rings us to the questiun of overtocking or how many colonies can e kept to advantage in one apiary. of course localities differ, but it is noteworthy fact that the bee-keeper ith a large number of colonies, as a er 19th ule, does not get as much honey per olony as one with a smaller number then managed as well; and as his

stock increases his average decreases. I have for a long time tried to solve this problem as far as myself was concerned and after twenty years I have come to the conclusion that I have been keeping too many in one place. When the white clover is in full bloom would it hardly possible to over-stock it, but if we limit our observation to this particular time we will make a grand mistake. In my opinion it is at fruit bloom time that the greatest mistake comes from having too many bees in one place. I used to look very indifferently on the honey from this source, but I have changed my views We do not want any of it entirely. in our surplus apartments but the more we can get of it in the hive proper the better the queen will lay, and I was going to say better still, there will be no empty cells for the white clover to follow and it is then taken direct to the surplus apartment. It makes a great difference to the white clover surplus when the hive below is filled with honey, brood and bees at the beginning of this our almost only source of surplus honey. Previous to last year I have had from 150 to 200 colonies in the home apiary with often not enough honey gathered to carry them over from fruit bloom to white clover, Last year just before fruit bloom I shipped 100 colonies to Owen Sound and lo! the difference, we never had so much honey in the hives at the beginning of white clover bloom, never had so large a surplus and never so little feeding to do except one year when the white clover continued to yield honey during August even after the queen had slackened up her laying. Now it may have been due to the season, but I feel safer in attributing it to the fewer bees. When the white clover is in full bloom one has to wait for a long time to see a blossom

Johan Forssell, Kalback Sweden An article in the Canadian Bee Journal entitled "McEvoy's Foul Brood Treatment in Australia " says: " McEvoy's treatment of foul brood is very safe and sure, but I have not known a case that did not yield to simple re-hiving the bees on starters of comb foundation. I do not consider it necessary to remove these starters and supply another set of starters as Mr. McEvoy recommends. Perhaps the conditions in colder climates render it necessary, and, seeing foul brood is mostly had in cooler climates the disease may be of a much more severe form than that in the warm climate in which most of my experience has been."

That bees can be cured on this principal in cooler climates I can testify, and I will say further that bees can be cured of this disease without transferring them to another hive and only the old combs taken awav.

No one who has studied the disease can be sure that all spores of Bacillus Alvei-the very cause of foul brood—are excluded by transferring bees to another hive, or, indeed, after the starters have been removed; and so we must seek for another explanation for the sucess of the McEvoy method: this may be found in the natural hereditary law. Before a colony has been detected to have foul brood they probably have had the disease good time, during which ime many bees have been bred which have no had the disease. Every disease, ever the most contageous, does not attack all and so these immune bees have worked as nurse bees and have trans mitted of their healthy condition the larvæ they have fed; after a tim the disease dissappears.

The hereditary law is very impor

About Foul Brood.

of it revisited by a bee. Not so, however in fruit bloom, in cases the same blossom is frequently visited which must be a loss of time. For this locality I want no more than 100 colonies in one place and believe that 75 is better still. Unless the locality is a poor one I do not think it would pay to have an out apiary where one has less than this number. Whether it would pay you to increase your number of colonies and have two or more apiaries one can only decide for themselves. I would say, however, do not attempt too much. If it is going to overwork you don't do it. It never pays to do all one can. much better to keep some strength in reserve. You will live longer and should therefore accomplish more and will undoubtedly enjoy life more. I have seen a comparison made between an American and a German. whether true or not, it pictured the former worn out at fifty while the latter was ready to begin, having both energy and experience to help him: certain it is if we have a stock of reserve energy we should be in a position to accomplish so much more as our experiences increases. If we have decided to establish an out apiary, the question is, where and how far away shall it be? If I had my choice it would be between 31 and 4 miles but this will have to depend on circumstances. If by going a little further I can have them at a friends place, one who is a lover and advocate of the little bees, there I would not hesitate in going. No matter how good the location may be I would never take them to place where the owner is not in sympathy with us and our bees or who is afraid of them, as there wil surely be trouble

TO BE CONTINUED

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tant in apiculture, one can use it to breed better bees, long-tongued bees, bees which swarm very little, bees which are hardy of good temper, etc., but its best use is undoubtedly to cure or to eradicate several kinds of disease. It seems to me, however, that a great many bee-keepers think only of the queen and drone in all these cases, but this is a mistake. The influence of the workers are very great, let a degenerate colony have eggs from a good colony and breed a queen and this queen will not be as good as she would have been had she been bred in a good strong colony. Let us remember that the queen and drone are not capable of collecting honey or pollen, building comb, cleaning the hive. etc., and that it is to a extent they impart these qualities on their progency.

A Bee Keeping Enterprise.

Miss Mills, a member of the Freshman class at Syracuse, N.Y., University, is paying her educational expenses by keeping bees. For two vers she has cultivated the honeymakers, and has found it remunertive and interesting. She has eighty swarms, and takes entire care of them perself. They are kept in a vineyard in her father's farm near Syracuse, is they can be captured more easily in the vines than in the trees when hey swarm.

When Miss Mills goes among the tess she wears brown clothing, as hey are known to be less offended that color than any other. To rotect her head and face she puts on broad-brimmed straw hat and a veil, acked carefully in. She has never affered any harm, and says that if he is gentle and self-possessed among he winged creatures they may be ade quite good friends. She does I the carpenter work necessary to

keep the hives in repair,

The care of her bees does not require so much time as to interfere with her studies, even in the height of of the season, and during the winter it is almost no trouble at all to take care of them. Miss Mills has secured regular customers who take all of her honey at good prices, because it is so uniformly excellent. Her specialty at college is music. She is literally turning honey into music.

Value of the Bee.

The value of the bee in the work for fertilizing plants by carrying pollen from one plant to another is greater than its use in producing honey. In fact, without the aid of bees may crops would be complete failures. Darwin found that in 100 heads of purple clover protected from the visitations of bees not a seed was produced, while 100 heads visited by bees produced nearly 3,000 seeds. When two varieties of certain plants are grown in the same neighborhood there is a liability of cross-fertilization as bees forage over a wide territory. It will, therefore, pay the farmer or fruit-grower to keep at least one hive of bees or encourage his neighbor to do so.

At the Oregon Experiment Station they forced a number of peach trees into bloom under glass last November, and introduced a colony of bees into the house, first protecting one tree so that the bees could not get to it. From that tree all the fruit dropped when the stones began to form. From the others not a fruit dropped, and the fruit was so abundant that it was necessary to thin out severely. This shows very clearly how much every orchardist is indebted to the bee-keeper for the success of his fruit crop, as without the bees there would not be insects enough to pollenise the blossoms.

BEE-KEEPERS' ASSOCIATION

CANADIAN BEE JOURNAL

Devoted to the Interests of Bee-Keepers, Published Monthly by

GOOLD, SHAPLEY & MUIR CO

BRANTFORD - CANADA

Editor, W. J. Craig.

APR1L, 1901.

EDITORIAL NOTES.

We thank the friends who so promptly and kindly supplied us with the copies of the C.B.J. asked for in last issue.

Mr. McEvoy has, by special request, favored us in this number with a valuable article on his treatment of foul brood.

We present our readers with a picture of the Ontario Bee-Keepers and their friends standing in front of the Town Hall, Niagara Falls, after their morning session, Dec. 5th, 1900.

Reports from many quarters tell us that bees have come through the winter in good shape; it is yet early, however, to accept this as general, there is still a lot of snow in Northern Ontario and Quebec.

The Saturday Evening Post, published by the Curtis Publishing Co.,

Philadelphia, is rapidly increasing its circulation to great proportions. The reader of the Easter number will not be surprised at this for it is probably the best number yet issued. It will be difficult to produce a better dollar's worth than is given the readers of the Post in a year.

We understand that the O.B.K.A. Executive have decided not to place an exhibit at the Pan-American at the beginning of the exhibition at least, owing to the very limited supply of honey at their disposal. They are, however, considering the matter of making a display of the new season's crop in July. Mr. Converse, Superintendent of the department, is favorable to this arrangement. The Executive considers that the grant of \$300 would not be nearly sufficient to meet the expense, and that the proposal to place the exhibit in charge of the fruit commissioner would no be satisfactory to Ontario bee-keepers

Our readers will note in our advertising columes the estate of the lat D. W. Cummer, of Florence, who passed away to the great majority some months ago. Mr. Cummer begat bee-keeping in 1884 and continue in the business more or less extensively until the time of his death usually working from 75 to 100 columnies. He was intensely interested in bee-keeping, and often in his latillness remarked "I wonder whe will become of my poor little bees As a honey producer he was versuccessful, neat and orderly in he

manager siderable sorth W was one the cont soney ex He leave hughter

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management. He worked up a considerable trade shipping honey to the North West. In the fall of 1899 he was one of the Ontario bee-keepers the contributed 500 lbs to Canada's many exhibit at the Paris Exhibition. He leaves a wife four sons and three hughters.

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Z.A. A copy of the 1900 edition of the lace BC of Bee Culture, published by n at A. I. Root Co., Medina, Ohio, is n at hand. This edition marks the pply th thousand. We cannot speak too r are, ighly of the excellence of the work er of bee culture or recommend it too son's rongly to either veterans or bemers. The last edition of 5000 pies issued Oct., 1899, was exusted in the short space of one ar. The 1900 edition, besides being ent to ore thoroughly revised than any e proevious one, has received larger harge ditions of new matter and now ntains 500 double-column pages. eepers ewould corroborate the statemena the publishers that "this work will adver eany one who keeps even a few ne latters ten times its cost in a single ho pas II." We have ordered a consignat of these books and will be began ased to supply them at the pub-

b Drive Ants From the Lawn.

ers price, \$1.20, post free.

his last a pril Ladies' Home Journal says: Fine coal ashes sprinkled about burrows of ants will cause them eave. Ashes may be used on the without injury to the grass.

y in his kd ashes are best, but those fresh

from the stove, shaken from the stove-shovel, will answer the purpose very well."

We would consider that the remedy would work successfully in apiaries where ants are troblesome.

Homemade Vinegar.

HOMEMADE VINEGAR. The following recipe for making excellent vinegar was given me by my German neighbor, who, happening to come during pickling season, heard me lament the impossibility of finding a good quality of that article at the village store. "Why don't you make your own vinegar?" she inquired. On learning my ignorance in that branch of cookery, she kindly initiated me into her method, which is, I think, original, and which proved so simple and inexpensive that I have since used no vinegar but that of my own make. Pour into a jar tea that has been sweatened with honey. Cover the jar with a muslin cloth to keep out flies, and set away in a sunny spot. Each day pour into the jar any tea that is left over at meal time, while still hot, until you have the desired emount of vinegar. in more honey, according to the amount of tea added. After a few days' exposure to the sun, the liquid will become sour, and for about three weeks will continue to ferment. Allow it to remain in the warm sunshine until the foam has all subsided and the vinegar is clear. It is then ready for use. Strain, bottle, and set away in a cool place. When made during the hot summer months, vinegar is ready for use sooner than when made in winter. Vinegar prepared in this way is both wholesome and economical, as often tea, is used that would otherwise be wasted.— Ellen Battersby in Farm and Home.

Communications ‡

THE O.B.K.A. DIRECTORS AND THE HONEY CROP REPORTS.

Editor C.B.J.,

Dear Sir,-Some years ago I was asked the question, "What is the object of the government in giving grants of money annually to the fruit growers, bee-keepers and associations?" At that time I scarcely knew what answer to make, for, aside from attendance at the annual convention, the report of which is published by the government and the "Canadian Bee Journal," I did not know of any duties that the officers and directors were called upon to perform. As I understand it, the object of the government in making these grants is to promote and encourage these different industries, by dividing the province up into districts with a representation from each who should meet from time to time and give reports as to the state of the industry in his district. I do not know what other societies have done, but I am not aware that any reports has been made by the district representatives with regard to bee culture, with the exception of those made by the different affiliated societies. the affiliated societies are comparatively few in number and do not represent the whole province, I think, Mr. Editor, your suggestion in the March number of the C.B.J. is timely, that the directors of the O.B K.A. be requested to make a report of the state of bee-keeping and honey crops in their respective districts. it may be difficult to get as full or complete reports in this way as we could wish, still at present we are almost completely in the dark with regard to knowing the state of the

honey crop, and if a report from each district could be published in the C.B.J. showing where honey was khibition plentiful or scarce, it might be the alture for means of honey being more equally sociation distributed.

Yours very truly. R. H. Smith St. Thomas, Ont.

LONG-TONGUED BEES AND RED CLOVER.

Editor C.B.J.,

Dear Sir,-I notice a lot of dis slington cussion in the U.S. bee papers about long tongued bees and red clove the PA with short corollas, but I am afrai the end sought will never be attained ditor C in the way proposed, namely; b breeding bees with long-tongue and selecting particular heads of clover to raise plants from.

I think what we want is a clove that will yield as well as the alsike and have the good qualities of th red clover as to pasture and th growth of a second crop after it i cut for hay. In this locality farmer will not sow alsike because it failst grow a second crop, and some clair that it makes bitter milk and other say the hay from it does not sell we in Toronto markets.

Now, as alsike is simply a cros between the wild white clover an the ordinary red, why not get agr cultural colleges and experiment farm officials to work making mor Why not try the sam crosses? cross again; it might produce different clover, and also why not the a cross between the red and alsik A variety of crosses should be trie We pay our professors and far managers for just such work.

One thing strikes me as strang that bees do not produce any cro fertilization in clovers, for red, alsi and Dutch never seems to mix, b always remains entirely disting Perhaps some of our wise men a tell why.

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Dear 5

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Just a word about the Buffalo Exhibition. The Minister of Agriulture for Ontario only offers the nally ssociation \$300 toward making an xhibit, and proposed that a fruit an should look after it when on xhibition. We could not accept hose terms.

Yours truly, I. D. Evans. Vice-Pres. O.B.A. f dis slington, March 16, 1901.

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tained ditor C. B. J.:—
ly; by Dear Sir, After Dear Sir, After reading the last ongue sue of the C. B. J. and noting what said regarding the Pan-American, so what is said regarding the coming xhibition at Glascow, I thought I light offer a few suggestions on the latter. 1 am sure we are all interested making this preferential trade with e mother country a success, and ould not knowingly do the first ing to hinder its accomplishment in e shortest possible time. We are so interested in doing the best we n for ourselves, and I believe the complishment of the first would lp us wonderfully in succeeding in e last. Then what about the khibitions? Just this: By all means hibit at Glasgow, provided we can hibit at both places. If not, then n-American first. Why? Because are not afraid to place our products ong side of our competitors. No tter place for them to win the rchaser's preference, provided we ve the best. It would appear to radvantage far better than to send thoney across the ocean to Glasgow d ignore a chance of competing th our rivals at our own door. Of irse the reasons why we were raid" to exhibit would never be blished, they would only be sursed.

In former years our Canadian. Cheese was good but unknown and a good quantity of it found its way to New York and was shipped as "American Cheese." How is it to-day? I believe the tide has set very strongly in the very opposite direction, and that because Canadian Cheese is known. We have not as vet destroyed our reputation for delivering honest goods, in some lines at least. Let us place our honey where it can "speak for itself." I believe it is quite able to do so.

I would like to make a correction in the report of our Annual Meeting as published in the C. B. J. On page 199, March number, I am made to say, "By taking the cushion off and "putting the board on you allow the "moisture to get away." What I did say, or tried to say was, "By taking "the board off and putting the cushion "on you allow the moisture to "escape;" and I must have been so understood or some of the wises ones would have brought me to time.

Bees appear to be wintering nicely, very quiet, not many dead ones, no spotted hives. A colony becomes restless now an then but a handful of snow puts them to sleep again. No glass in the cellar windows and the sun often shines in on the cellar floor (clay) I may have to remedy that as spring advances, I was looking at them to-day, (March 29th) and they appeared so quiet and peaceful I thought I would like to know the temperature. I have not had a thermometer in the cellar all winter so I put one down and in about half an hour it stood at 43 degrees. Of course the air is pure and cellar dry; do not know as I ever had them in as satisfactory condition at this season of the year. Don't know about other bee-yards as I have heard nothing so far this spring. Cannot say how long it wil

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be before bees get out as there is plenty of snow yet, road fences nearly full. Have had good sleighing every day since Nov. 12. Will not be in a hurry to put the bees out if they keep quiet. J. K. Darling. Almonte, March 29, 1901.

CANADIAN BEE-KEEPERS AND THE PAN-AMERICAN.

Editor C.B.J.,

Dear Sir,—As a bee-keeper who is interested in the export of Canadian honey. I cannot see that it would be to our advantage to exhibit at the Pan-American. To exhibit at Glasgow would appear to me of considerable advantage to the Canadian beekeeper.

Honey sent to Britain enters a country where prices are higher than they are here, and where there is no tariff on it. There is a tariff on honey sent to the U.S. and prices are much the same as our own.

Yours truly, E. Dickenson, Ir.

P.S.—Moved my bees out of cellar on March 18th and found them in good condition. Out of 125 colonies I lost only two. E. D.

Editor C.B.J.,

Dear Sir,-Mr. Holmes' paper entitled "Oueen's," read at the Bee-Keepers' Association meeting held at Niagara Falls, as reported in the C. B.J., is very interesting. It is true, as Mr. Holmes says, "the great centre on which success most largely depends, that centre at which no master bee-keeper can err, is in securing the good queen for every colony."

But, I agree with Mr. Hall in all that he says. Who has not had stocks of bees, apparently alike and some would store three times as much honey as others, yes. others that were even stronger in bees.

Now, I have read carefully all that was said on the subject at that associ ation meeting, and I think that none hit the mark exactly. I have become thoroughly converted to the "long tongue" idea and believe that the explains it all; there if no myster about it. It also explains what Mr dvises Post says on page 174. There wil be more difference during clove as a preti honey because the long-tongued bee lisease. can work on red clover, especially Ljudge mammoth or large red (lover, "and bee-keep when the buckwheat and golden ro reat his honey come we will not see half o ad with that difference." Why? is work hybrids or even black bees can work hat he n as well on buckwheat and golde y hivin rod, and it is the same early in the omb for season on the wild red raspberry. The m

My son, E. L. Michener, living farther from the lake and nearerth marsh than I do, got about as mud wild red raspberry honey as clove while I got very little, but when clove came our yields were about the same He got twice as much honey from buckwheat and fall flowers for m bees had to go too far for it.

A part of our bees are Italian an Carniolan crossed, while they loo like any hybrids, they are gentle an very good bees; we do not wan all of the long-tongued Italians, for they will keep on working on re clover after it ceases to be profitable while the dark fellows will be filling up their combs with dark honey from different sources. Yet, if all our be had been like our best red clow workers we would have got twice the amount of honey we did get, 50 think we will do a lot of re-queening another summer, unless many of of colonies perish during this long on tinued cold weather coming after t mild weather we had in January.

Yours truly,

Ila Michen

Haldimand Co., Ont. March, 1901.

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:h, 1901.

FOUL BROOD.

Half Treatment Results In Too Many Failures.

In the Canadian Bee Journal for tha January, 1901, I see that Mr. Pender, ster, ditor of the Australian Bee Journal, t Mr dvises the hiving of toul broody ditor of the Australian Bee Journal, wil bees on starters of comb foundation clove is a pretty sure way of curing the lisease.

Liudge Mr. Pender to be a good "an ee-keeper and a man that would en roll reat his colonies before they became ad with foul brood, and then doing ecaus his work so carefully and so well 1 wor hat he made a success of curing all y hiving the bees on starters of in the omb foundation.

The number of cures that can be livin hade that way will depend entirely tret the hathe following conditions:—
5 muc list. On how little diseased honey

clove he bees find to take out of the old n clove ombs when they are being removed. 1e same 2nd. Where much of the honey in for m devery thing will depend on whethfoul broody colony is badly diseasany thing is to be placed above te queen excluder to catch the seased honey after the bees are ven the starters if the starters are ot to be removed.

In the honey season of 1875, while ring my own apiary of foul brood, took all the combs out of several seased colonies and left the bees to ild combs on the bare frames and a short time I had about as many llures as I had cures. This method red every colony that was not bad th the disease, but failed on every lony that had been bad with foul ny of old and had a good deal of unsealhoney in the brood nest when the combs were removed. Just as mas the bees had a little comb de they stored part of the old dis-Michene ed honey in it and a little later on l brood made its appearance again. I then resorted to taking away all the new pieces of comb that the bees made during the first four days and let them keep what they made after that. This plan thoroughly cleansed the bees of all the old diseased honey and ended in perfect cures. I also cured many colonies that summer by the use of clean combs and the frequent use of the honey extractor, and in the fall of that year after brood rearing was all over, I cured quite a number of foul broody colonies by shaking the bees on to sound sealed stores. plan left the bees no place to store the diseased honey and forced them to keep it until they consumed it and . that ended the disease.

All of these plans and methods I studied out twenty five years ago last summer and fall when I had to treat 50 out of 60 colonies in my own apiary for foul brood.

When foul brood matter is drying down it glues itself fast to the lower side and bottom of the cells and there it will remain as long as the comb lasts, and during honey flows the bees store honey in many of these diseased cells and after that foul brood is spread through a colony in proportion to the amount of honey that is fed from the diseased cells to the sound larvæ. In the honey when we are taking the combs out of the diseased colonies to cure them, the bees (finding the unsealed honey so handy with no uncapping to do) rush into the open cells and take all they can hold, and where many of the diseased cells are full of unsealed honey (as they usually are at such times) the bees will get pretty well filled up with diseased honey before all the combs are removed. To cleanse the bees of this honey I give them starters of comb foundation and in four days the bees make them into little pieces

of comb and store the diseased honey in them. I then (in the evening) take away all the comb that the bees made in the four days and give them full sheets of comb foundation, and before this is worked out the cure will be complete. This is the safest and most practical method for all classes of bee-keepers to follow and one that never fails. It is one thing to cure an apiary of foul brood and quite another to do it and make more or less increase and have all colonies in grand condition when the season closes, and this can be done.

When I am examining an apiary I mark each colony according to the condition I find it in. I put one pencil cross on the front of the hives that are strong in bees and have only a little of the disease, and two crosses on those that have less bees and more disease, and three crosses on those that are weak in bees and badly di-eased. In the evening in the honey season I pick out the weak colonies that have the three crosses on and shake the bees of every three into an empty hive, so as to make good big swarms to start with, and then give them the starters, which are to be removed in the evening of the fourth day, and full sheets of comb foundation put in their place. I take the hives next that have two crosses on and put the bees of every two of these into an empty hive and then treat them. I then remove the combs out of the hives that have one cross on and shake the bees right into the same hives and treat them.

Where I find only a few cells of the disease in colonies that have large quantities of nice sound brood. I save this brood with some bees on it and fill up two story hives with it. I then set these hives back a little distance from the others and when the most of this brood is hatched I go in the evening and shake the bees into a single hive and treat them and the end give them a queen.

The increase of colonies that I make by hatching out the best combe a adju-of brood during the honey season od. So (which is the only safe time to do this) more than makes up for the sional old bees I united.

All curing and treating of diseased colonies should be done in the even ings, so as not to have any swarming out and mixing in with others, of bees returning to the old stands after they have been united with others.

This same method of curing can be carried on at any time from Mar to October when the bees are no gathering any honey by feeding plenty of sugar syrup in the evening to take the place of a honey flow.

All the old combs and pieces mad in the four days should be made into wax by the Gemmil Press, which i by far the best in the world for get ting the largest quantity of wax ou of old combs and doing it in th shortest possible time.

WM. McEvoy

Woodburn March 8, 1901.

Spring in the Apiary.

BY MORLEY PETTIT.

It is high time for the apiarist plan for setting out bees if they in the cellar. The first favorabled in April is the time. Let the day bright and comparatively calm; the mometer not below 50° F. in shade. The stands should have be arranged last November, as soon the bees were put in the cellar, but this has not been done, clear an the snow (if any remains) enough level the stands on the ground. sure they are level from side to s and about one inch lower in in than behind. An inch block tad

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n and the end of the spirit level for this mose is very convenient. The hat lads may be set on four bricks and combin adjusted with small blocks of eason od. Some set the hives directly to do the bricks. Examine the hives or the asionally during early spring to that the frost going out of the seased and does not leave them tipped

even rming low, a word as to the arrangement he apiary. Every hive should be s after movenient to the extracting room iers. ossible. In all our work we must ly short cuts, in order to accom-1 May as much as possible in the re 110 ted time at our disposal. eeding s should be on separate stands. ening on a single plank or bench. Bees so sensitive to jars that one must s made ble to disturb one a little without de inte urbing the whole row. Then they hich t be far enough apart, either in sor singly, to allow the operator in the and beside the hive while manipug combs. To set them in straight ten or twelve feet apart, leaving a spaces between hives in the VOY is a very economical and conent arrangement. A row that is however, becomes confusing to eturning bees. In the apiary of

resent writer, the space allows of the rows to contain fourteen so spaced; but the tenth hive piarist litted from each row, leaving a they a through the yard. To further rabled the monotony, two boxes are he day the row between the third and ilm; the and the sixth and seventh, in in allowed to project beyond the have be aces. Thus the workers and S S001 rgin queens have less difficulty llar, but ating their homes; as far as le, the hives face southward. enough do better if the hives are shaded ound. nmer; hence it is advantageous de to s ate the apiary in an orchard, led the limbs do not hang too id the ground is not to be cultivated. The rows should be arranged with a view to giving the bees a clear way out between the tree-tops while working, and especially not across the public highway.

In removing them from the cellar, some of the leading speakers at the Ontario convention recommended setting out only a few hives daily, the reason given being that when a great many bees are liberated at once they are apt to become excited and "drift" to one part of the yard, nearly deserting many of the hives and overcrowding a few. That has not been the writer's experience; in fact, he sees strong reason why they should all be set out on the same day. their first day the workers, engrossed with their cleansing flight and the novelty of their changed circumstances, give little thought to robbing or warding off robbers. The next morning, however, they are ready for business. Now set out more bees and they fall an easy prey to the first. But, if all have an equal start, all have guards posted on the second morning and the robbers have a poor chance.

Even then, some are weak, and some by nature defend themselves but poorly, and eternal vigilance must be exercised to ward off robbing. for "an ounce of prevention is worth a pound of cure." Then, too, one should encourage breeding by sheltering the hives from cold winds, and providing clear water, containing a little salt (about a teaspoonful to ten or twelve quarts), in a sunny, sheltered spot in the apiary. This, by the way, if kept up all summer, will make the bees better natured, and also keep them away from where the cattle and horses are watered. wooden pail and a ten or twelve foot piece of matched flooring will make the fountain and trough. In the side of the pail, close to the bottom, bore

a hole and insert a plug perforated longitudinally with a gimlet. A nail placed loosely in this hole will regulate the flow of water. Adjust the board edgewise, groove upward, with one end beneath this spout and the other sightly lower to cause the water to flow slowly down the groove after it drips from the spout of the "fountain." One who has never before tried this simple device will be surprised how the bees gather on the edge of the trough. Although the water always runs, the trough should be washed out each morning. Cover the pail with a board to keep out the sun.—Farmers' Advocate.

ABOUT CLIPPING OUEENS-A Good Record.

By Mrs. A. J. Barber.

I have noticed in several of the bee-papers lately, items about clipping queens' wings, and how to do it. I did not suppose there were so many ways of doing it, and I was surprised that, of all the different plans described, none used mine Perhaps many are doing so; but as none of them have told about it [perhaps thinking it too simple to need description I will tell how I have been doing it for the last five or six It seems so much easier and more satisfactory than any other way that I never think of trying any other method.

When I find the queen I rest the comb on the end of the hive and hold the upper end of it in such a way that the comb slants a little away from me. When I can get the queen near the centre of the comb I start her toward the upper end of it: and by following her with my scissors I slip the blade under her wings as she runs, and take it off smooth and clean in much less time than it

would take me to catch her in fingers. One soon gets used to lowing her motions with the h and after a few trials the clips can be done nicely without touching the queen except with scissors. I don't believe they k what has happened, or that anyth has happened, judging by the ections. One needs a pair of broidery scissors, and they she procus be keen and sharp.

One day last spring I found clipped 31 queens before noon.

I have had but one accident, that was several years ago whe was nervous, and a little afraid bees. That time I cut both wi and legs.

I tried the pocket knife mel at get but had to turn my queen loose a ould comb, and clip her with the scis ned th after all.

I think it much easier and be ould to clip all the wings across strain is in about half their length. As I do sell queens, nor keep them for bibition purposes, I like to clip the close enough to insure their h found easily when a swarm of out. I usually have a boy watch and it doesn't pay to leave a que wings long enough so that she make any use of them or the boy not find her.

I don't see why so many ing c troubled with swarms clustering fore returning to the hive to look their queen. I don't remember re and having had them do so but to Usually they are coming back by time the queen is caged and the hive put in place of the old Perhaps different strains of When I have different habits. cluster I am always reasonably luch that they have met a young from some other place or hive, treat them accordingly. - Man Colo., Gleanings.

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iey k stions to be answered in these colums should estions to be answered in these columns should into us not later than the 15th of each month in to insure their answer appearing in the follow-sue. We wish to make this department as use-our readers as possible and a reliable source of mation. For the present at least, the replies the procured from various sources.] by ir of

vestion. - I would be ged to you if you would give me ident, opinion about using second-hand o whe hives. afraid

oth whave a chance of getting some at ry low figure but am afraid I fe met at get some disease with them.

loose a fould there be any danger if one ie scis ned them well, and how would advise cleaning them?

and be ould it be safe to use the wax strain is in the frames?

A.R.V., Ont.

m for NSWER.—Second-hand hives that clip t been very neatly made and well arm con for and of the right size to suit watch would be the only kinds I would if they were selling cheap.

at she sease cannot be spread by using the boy by hives and all the cleaning that hive will ever need is a little ping out sometimes, and for this ose I have always used a piece stering to look saw plate about four inches re and kept it filed square on the so that I could in a few seconds e out a hive until it would fairly back by nd the

> s, the wax made out of diseased s will be perfectly safe to use, they are old combs you won't uch wax unless you use a press.

> > Wm. McEvoy.

lburn, March 15, 1901. _ Man

QUESTION, -Will the honey bee, inbred by continually allowing them to raise their own queens, degenerate in size or working qualities?

J. B., Bracebridge, Ont.

Answer.—Passing, for the present, unnoticed, the effect of inbreeding on the size of bees, I shall confine my remarks to inbreeding and its effects

on their working qualities.

I am fully aware of the fact that it is peculiar ground towards which the querist so lovingly invites me and I fancy I hear a voice (although I cannot see the friendly intercessor) bidding me "be careful upon what I I shall, however, precipitate enter." the matter by very briefly saying Yes, the continuous inbreeding of bees will have a deleterious effect on the working qualities of the same. In support of this seemingly bold statement I will simply refer to that which I, in common with other beekeepers of any considerable experience have repeatedly observed, viz.: the very favorable results obtained by the introduction of new blood into the apiary or the changing of colonies from one apiary to another, which is practically the same thing.

I may also be permitted to quote the words of a prominent author, who says, "I do not think that sufficient attention has been given this subject by the writers in the various beejournals; it might well replace many subjects of minor importance. While for a time at least no apparent evils may result from in-and-in-breeding, yet I would advise that it be carefully avoided by every possible means."

M. B. Holmes.

Athens, March 20, 1901.

Union Field Tests Experimental for 1901.

The members of the Ontario Agricultural and Experimental Union are pleased to state that for 1901 they are prepared to distribute into every Township of Ontario material for experiments with fertilizers, fodder crops, roots, grains, grasses and clovers. Upwards of three thousand Ontario farmers conducted the cooperative experiments upon their own farms last year.

List of Experiments for 1901:

- 1. Three varieties of Oats.
- 2. Three varieties of six-rowed Barley.
 - 3. Two varieties of HullessBarley
- 4. Spelt and two varieties of Spring Wheat.
 - 5. Two varieties of Buckwheat.
- 6. Three varieties of Field Peas for Northern Ontario.
- 7. Two varieties of bug-proof
- 8. Cow Peas and two varities of Soja or Japanese Beans.
- 9. Three varieties of Husking Corn.
 - 10. Three varieties of Mangolds.
- 11. Two varieties of Sugar Beets for stock Feeding.
- 12. Three varieties of Swedish Turnips.
- 13. Kohl Rabi and two varieties of Fall Turnips.
- 14. Parsnips and two varieties of Carrots.
- 15. Three varities of fodder or Silage Corn.
 - 16. Three varieties of Millet.
- 17. Three varieties of Sorghum.
 18. Grass Peas and two varieties of Vetches.
- 19. Dwarf Essex Rape and two varieties of Kale.
 - 20. Three varieties of Clover.
 - 21. Sainfoin, Lucerne and Burnet.
 - 22. Five varieties of grasses.
 - 23. Three varieties of Field Beans. 24. Three varieties of Sweet Corn.
 - 25. Fertilizers with Corn.
 - 26. Fertilizers with Mangolds.

- 27. Growing Potatoes on the leannd in hills.
- 28. Planting Potatoes the sar day and five days after being cut.
- 29. Planting Cut Pototoes wh have and which have not been coa over with land Plaster.
- 30. Planting Corn in rows and squars (an excellent variety of excern will be used.)

Material for either number twe five or number twenty-six experin will be sent by express, and for of of the others it will be forewarde mail.

Each person in Ontario who we to conduct an experiment and willing to use great care and acciding the work and report the result the test as soon as possible harvest, should select the exact periment desired and apply for same at an early date, The may will be forwarded in the ord which the applications are resuntil the limited supply is exhalt might be well for each application and the second choice for fee first could not be granted.

C. A. ZAVITZ,

Agricultural Colle Guelph,

Guelph, March 16th, 1901.

A woman cries ten times wounded vanity where she crout of really wounded feeling each one of the ten times degood. Let your wounded smart all that it will, for van kind of "proud flesh" of the soul that has to be treated wicaustic every little while to from becoming an excresce will disfigure the whole cha April Ladies' Home Journal.