SEVENTH 200. Tay

ANNUAL CONFERENCE

of

The National Beekeepers' Association of New Zealand.



Held in the Concert Hall Y.M.C.A., Christchurch, June 9th, 10th and 11th, 1920.

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Held in the Concert Hall Y.M.C.A., Christchurch, June 9th, 10th, and 11th, 1920.

caland opened in the Concert Hall Shackey, W. A. Lilburne, A. Norton, W. H. .m. on Wednesday, June 9th. There were Skey, W. Kennedy, P. Martin, A. J. Boyce, ⁰ delegates present, and the President W. E. Barker, S. Gardiner, R. McGibbon, Mr. James Allan) presided. Amongst C. A. Jacobsen, T. A. Clark, C. A. those present were:--Mr. J. A. Campbell Pope, Woods, E. Chave, A. A. Downs, L. Assistant Director Horticulture & Apiaries Bowman, J. Kreft, A. Ireland, H. J. Ellis, Division, Department of Agriculture), W. H. Cartwright, A. H. Davies, L. Irwin, Messrs. E. A. Earp, F. A. Jacobsen, G. V. H. Gardner, J. Westroff, C. J. Clayton, A.

IRST DAY--WEDNESDAY, 9th JUNE. tors), Mr. J. Rentoul (Chairman) and Mr. C. F. Ryland (General Manager of the The Seventh Annual Conference of the N.Z. Co-op. Honey Producers' Association ational Beekeepers' Association of New Ltd.); Messrs. J. Cooper, A. J. May, J. the Y.M.C.A., Christchurch, at 10 Brown, E. W. Sage, G. L. Hight, A. H. Westbrooke, H. A. Young (Apiary Instruc- H. Emerson, E. G. Ward, W. B. Bray, J. Murdoch, J. Bayne, A. Barrett, G. H. Me-Lean, W. Booth, R. Beattie, E. Simpson, L. G. Kitchingham, T. S. Winter, H. N. Goodman, W. Wats, W. Watson, T. Barr, A. G. Craig, J. C. Gibb, A. R. Dickie, A. Robins, H. Shepherd, R. McKnight, J. Forster, F. J. Kerr, L. Irvine, G. J. Verrall, R. W. Brickell, N. Askin; Mesdames Emerson, Shepherd, Palmer, Cartwright, May, Chamberlain, Aitcheson, Kitchingham, Robins, Ward, Jacobsen, Beattie; Misses M. Shepherd, Buckley, Hart, Winton, J.

An apology for absence was received from Mr. G. Witty, M.P. for Riccarton.

The President called upon Mr. J. A. Campbell, Assistant Director of the Horticultural Division of the Department of Agriculture, in the absence of the Mayor of Christchurch (Dr. H. T. J. Thacker, M.P.), to open the Conference.

Mr. Campbell apologised for the absence of Mr. T. W. Kirk, the Director of the Horticultural Division, who was not well enough to be present. The ladies and gentlemen before him, Mr. Campbell said, trouble-or all our other troubles put to represented one of the Dominion's important rural industries. It was a young and casions more loss of time or loss of mone growing one, and growing in importance year by year. Like all young industries, it dread. We never open a brood-nest with had many problems to face. They had out a watchfulness which becomes see met to consider those problems and re- nature for the flat and perforated cell, a forms, and he hoped that the conference too often-far oftener than is necessarywould be able to formulate and tabulate in we find it. In our industry there are detail those pressing questions they had kinds of people-there are keepers of been been talking about prior to the Conference. and beckeepers. The first of these sow The Department generally was anxious to disease; the others reap the harvest. The assist such industries as beekeeping; but keeper of bees is one who owns bees; those engaged in the industry were called has more or less colonies, generally upon to assist themselves. The Depart- stuck in some out-of-the-way corner. ment, he felt sure, would assist in all does not know anything about foul-bro reasonable proposals put forward. The Conference should formulate its proposals in such a way that the Department would be able to understand what was wanted. Having formulated their wants, they should push them with all their power.

PRESIDENT'S ADDRESS.

The President said that the present was the first Conference that the Association had held in Christchurch, and consequently there were present many who had not attended previous Conferences, and consequently he gave full liberty to delegates to shake hands with any man in the room on the shortest notice. He did not know if he could take the same liberty in respect of the lady members; but it was the duty of every gentleman to make the ladies feel

at home. In his address he wanted speak of what he considered should be keynote of the work of the Conference. the previous meeting, held in Welling ment in connection with the industry. tinuing, Mr. Allan said :- At our last n revolved, after a good deal of consider tion, on a forward movement in connee with our industry. To that end it to the several Branches of the Nati remits for their consideration bearing the direction which in their opinon the forward movement should take. Most you will have had an opportunity of em sidering these remits, and I hope that whe they are discussed in Conference that me may speak with no uncertain sound. M time let me outline the position that behind these remits. Let me ask the que tion--What at the present time is the greatest hindrance to the progress of m industry throughout the Dominion? Is not Foul-brood? Do we not all realise that this one disease more than any other gether-is our greatest difficulty? It w than anything else. It is our constant and when his bees die, which they genera do, it is quite unexpected; in fact, he probably remark that a few days b his discovery they were unusually which is very likely. The beekeeper also one who owns bees. He has more less colonies-generally more-and occupy the pride of position, well shelter and tidily kept. He may not know m about some things, but he does know f brood. His bees never die, but when have been out visiting he sometimes has "McEvoy." It is my candid opinion t if the keeper of bees will not become beekeeper, then he ought not to keep b We have an Apiaries Act. Mr. Hopk who fathered that Act, is proud of Speaking generally, the beekeeping fra

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have admired it, and wished that do this thing; there is not power enough. sent control? Let me make a statement must produce to our utmost limit. you know, my Apiary is in Southland, and I spend my summers there. This last nan, in Nelson. madequacy of the present staff.

had a similar Act. But of late years What, then, should be done? We should have become coldly critical. "Yes," ask that a promise already made in answer av, "you have got the ideal Apiaries to a resolution carried at a former meeting but you are not diminishing your of this Conference should be carried outbrood: you are not cleaning up; disease that a Chief Apiarist should be appointed: still rampant all over your Dominion. a man with a thorough technical knowledge that good is it?' The fault is not in the of beekeeping; a man who knows foul-Wr. Hopkins, himself has only one brood; a man with brains and push. Let at to find in it. He says increase the him make his own plans, but let us have malty from £5 to £20. I do not know this trouble dealt with in a fair and busiant that, but this I do know-the fault ness-like way. I daresay our legislators not, as I have said, in the Act. We as will ask the question: Is this industry keepers have not had the courage to worth all the expenditure involved in such the proper administration of the Act. an increase in instructors as would surely hat is where the fault lies. Do not mis- come? Are they justified in putting derstand me; I am finding no fault with this additional burden on the tax-Department as it at present exists. My payer? When the war was in promplaint is that it is totally inadequate gress our Government sent every available carry out the Act which it is supposed man to the front-everything had to give administer. An instructor may succeed way to war needs-and consequently all rgiving his attention to a comparatively the services of the country were more or all area in cleaning it up; but is it a less crippled. When the war ended it left ir thing to expect that our instructors us with a great burden of debt. What, Il make a success on the areas they at then, became the cry? Simply this, we We at will bring this out clearly. As most must increase our exports, and as a consequence the inflow of money into the country. Every man must do his bit. eason it was my privilege as your Presi- Well, we beekeepers want to do our bit. ent to attend a branch meeting in that This disease is a drag on us, but still with strict, and at that meeting I met Mr. it all our own Co-operative Association rearp. I was struck by this, though I did ceived in the last season 624 tons of honey, ot say so then, that Mr. Earp was of a value of about £40,000. The record mongst friends. He had done work for is one of continuous and rapid increase, em which they appreciated. It was the and, given a proper chance of development, nd of spirit that one naturally wants to there is no reason why in a few years exist between the beekeepers and in- it should not be 6,000 tons instead of 600 ructors. Now, I met Mr. Earp again, tons. Then as a product ours is second to till in his district, but this time at Tas- none. There is a verse in one of the old That was only a few Prophets which says: "Butter and honey weeks ago. How far do you think it is shall he eat until he shall know to refuse etween those two places? Only a matter evil and choose the good." Twenty-five of about 700 miles! Is it a reasonable centuries ago our product was bracketed roposition to expect Mr. Earp to clean with butter in this wonderful way. If tofoul-brood over an area like that, and day we are behind in the race, we only the same time grade about 15,000 tins plead for a chance. I am content to honey at the various ports? In my justify my position by two reasons:-(1) inion it would require six well gualified That our industry is worth it; (2) That en to clean up the South Island alone. it is the proper thing to do. If anthrax divide it into six districts would still or swine fever or any other dreaded disease d them very large, and there would still was to appear in Southland or Auckland, an urgent need for local inspectors to or anywhere within the three-mile limit. elp in the work. I am not quite so well Dr. Reakes would be after it, and no matter quainted with the North Island, but it what it cost or how many inspectors were ts more than the South in most things, required, it would be stamped out. During probably its needs would be greater this last season "fireblight" appeared in re also. I do not, however, propose to some orchards in Auckland. The Hortidicate how many instructors it would cultural Department have got a whole army ske: rather I wish only to show the total of instructors after it. There is no thought They of the expense, simply the danger flag has ave done yeoman service for our in- been hoisted, and will not be pulled down ustry—all honour to them for what has until the danger has passed away. Ladies herry and but they simply cannot and gentlemen, I want the danger flag

hoisted in so far as our industry is concerned, and kept hoisted until the danger of foul-brood is under control throughout our Dominion. I make this assertion, and I feel sure that beekeepers of standing will bear me out. that the loss in production of honey through foul-brood is ten times greater to our Dominion than the total cost of the Apiaries Department. It is a brake on subscribers, by the courtesy of Mr. T. the wheels of our industry that is not Kirk I was loaned a copy of the lists a only cutting down the production for most registered beekeepers, which contained on beekeepers, but is hindering expansion. 5,000 names, and to all those who we Owing to lectures given to our soldiers not already subscribers I sent a specim in the camps in England, many of them have come home wishing to become beckeepers. And it it would give present beekeepers the greatest pleasure to welcome them into our ranks; but we dare not do it: to become a beekeeper while ignorant of foul-brood is to court disaster. If we had a strong Department with sufficient instructors much could be done to help these men to take up an employment that in many ways would be peculiarly suitable for them.

It is my hope that this Conference may discuss this subject thoroughly, and that permanent good to our industry may result.

MINUTES CONFIRMED.

On the motion of Mr. E. G. Ward, seconded by Mr. J. Ellis, the minutes of the previous Conference were taken as read.

SECRETARY'S REPORT.

The Secretary (Mr. Fred C. Baines) submitted the following report and balance sheet:-

Mr. President, Ladies & Gentlemen,-

presenting my annual report and balance sheet which, I think, will be satisfactory to you all, as it shows the condition of the National to be in a very healthy state, and the finances sound.

. The members' subscriptions have increased £9 10s. and the Branch Associations by £8 14s. 10d. This latter would have been increased considerably, had I had the returns from three Branches whose statements have not yet come to hand.

During the year another Branch has been added from Hawke's Bay, and we are promised another in Auckland as soon as the season commences.

The badges of membership have bee procured, and can now be obtained fre the Branch Secretaries or myself.

The Journal Account, too, is satisfactor although I am not able to show a big profit this year, which has brought about by two reasons. The is that, as I was anxious to increase . Ge 48 copy of the Journal. I am sorry to the result was not so good as anticipated as out of that large number I secure only 175 new subscribers. The job en tailed a pretty heavy printing and postage bill, and incidentally a fair amount of wat on my part, and I confess the result disappointing, although I have learned since that another periodical that caters for a kindred industry made a similar canvass of a roll of 8,000 names, and secured only 250 new subscribers; so wa really did better than they did.

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The actual number of copies sent m this month was 839, of which there is free list of about 35, so the number of sub scribers is about 800, which is, roughly 120 more than at this time last year.

In the hopes of improving the gener get-up of the Journal, I have, as you know, been using a much better paper, a am illustrating every month. Judgin from the comments made by the scribers, the alteration is appreciated. as you all know, the price of paper increased about 500 per cent., and t cost of producing the Journal to-day is j about treble what it was when I asked to take over the control three yes ago, and now I am informed by I have very great pleasure in again printers that owing to new awards be given to the compositors the cost of pr ing will be considerably increased, and am compelled to ask you to agree to ! price being increased from next mon The cost of the specimen copies and po age, with the increased cost of printing are the chief causes of the increased e penditure, as shown on the balance sheet.

> Before closing, I sincerely thank those who by words of appreciation encouragement have assisted me to bru the Journal up to its present form, earnestly ask for assistance from the who are capable of sending along new items, so that the Journal may continu to grow in usefulness to our industry.

National Beekeepers' Ass	ociation of New Zealand.		14			
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The President said that the Journal had proved an excellent means by which members kept in touch with one another. They would admit that Mr. Baines had proved an efficient Editor, and was doing good work.—(Applause.) He invited a discussion on the question of increasing the subscription to the Journal.

Mr. Baines explained that increased wages to compositors and the increased price of paper made it likely that the Journal Account would show a deficit next year.

After discussion it was unanimously agreed, on the motion of Mr. J. Murdoch, seconded by Mr. J. Ellis, to increase the subscription to the Journal from 5/- to 6/per annum.

Mr. Baines: I take that as a compliment to myself, and I thank you very much.

On the motion of the President, seconded by Mr. A. Ireland, the Secretary's report and balance-sheet were adopted.

FORWARD MOVEMENT.

The President submitted remits from the Executive, placing the following before Conference for discussion:---

- 1. That in spite of our Apiaries Act and inspectorial staff, we are not making nearly sufficient progress in the checking of disease. In some districts it is questionable whether disease is not causing greater ravages than ever, and we think the time has arrived for a big forward movement in this connection. This assumption is supported by the resolution forwarded by the Clutha Valley Branch, whilst the recommendation by the beekeepers assembled at Ruakura indicates that increased vigilance is necessary to prevent the introduction of Isle of Wight disease into this country, and that importation of bees, queens, and honey should be immediately stopped.
- 2. That in order to carry this out, we ask for the immediate appointment of a Chief Apiarist and an enlarged staff.
- 3. That some new system of grading should be adopted in order to relieve the inspectors, and make it possible for them to concentrate on the inspection work.

Mr. J. Ellis (Poverty Bay) said that foul-brood was greater than ever before in his district, and unless there was proper supervision and the Apiaries Act enforced they were going to have considerable

trouble. His Branch had come to the conclusion that there should be a Chie Apiarist, also an increase in the number of instructors, and that the powers of local inspectors should be increased. He had been through a great many apiaries with their local inspector, and he found that there was more foul-brood in Poverty Bay than there was ten years ago.

Mr. L. Irwin (Southland) said that in dividual members of his Branch had enpressed their strong desire that the Government should take action to contra foul-brood by appointing a Chief Apiane and providing an enlarged staff of inspectors, with power to prosecute those who do not comply with requirements for coping with foul-brood. Southland bekeepers said that the thing had to be deal with, and dealt with effectively. He has self was willing to be taxed one shilling per hive per annum in order to provide for the additional inspectors.

Mr. E. W. Sage (Auckland Provincial Branch) said that he endorsed the remarks of the two previous speakers; in the North they heartily agreed with the proposition put forward by Poverty Bay and Southland.

Mr. W. B. Bray (Barry's Bay) moved-"That this Conference urge on the Govenment that the Apiary Division be madea separate Division, under a separate dires tor, responsible to the Director-Generi direct.'' He said that the Apiary Division was at present tacked on to the Horn cultural Division, and there was no Chief Apiarist; none of the graders and inspetors could do anything without consulting the chief of the Division, and he was a orchardist first and last and the whole the time. They could not, however, blam him, but at times it looked as if there w no control of the Apiary Division-no.col plete control. They should get the Api Division separated; they would then he a chance of the industry receiving the a tention it was entitled to.

Mr. J. Rentoul seconded, and said that the industry was sufficiently large to have a separate Division.

Mr. C. J. Clayton said that after the existing legislation having been in exist ence for 15 or 16 years, it was undoubted that foul-brood was on the increase. In had been his business to go round about the apiaries, and there was more foul brood about at present than there was or 16 years ago. It was not confined to box hives; his experience was that ther was more foul-brood among bees in ba

More inspectors were it was a wonder to him how the hives. ent inspectors got over the country did grading and judged honey at The judging and attendance at days should be cut out, and the inday should 'concentrate on fighting ectors An intelligent woman could taught to do grading.

Wr. E. G. Ward said that he supported. th all the influence he held, the adacy for more inspectors; it was quite that the present inspectors could cover the ground and give satisfaction: could not administer the Act.

Wr. T. Clark said he had no doubt that were agreed as to what was wanted. not as to how they wanted it. Beeepers felt that Mr. Kirk, the head of Division, was an out-and-out orchardist: the could not say that Mr. Kirk had given them a fair deal. The reason wekeepers had not got sufficient was be-

anse they had not asked in the right way. bey had not put sufficient "punch" into at they had asked. He suggested that he mover and seconder should discuss the natter with Mr. Campbell.

The President asked Mr. Campbell to peak on the subject.

Mr. Campbell said that he did not want say anything that would influence the onference one way or another to do mything it would otherwise do. As to the proposal for a separate Apiary Divinon, they had the principle that "division 18 weakness.'' If a small division were created, it was probable that beekeepers would get less consideration than they Were receiving at present when they were attached to what was really a small Division. What they should go for was Chief Apiarist attached to the Hortialtural Division; they would then get ractically what they wanted. Mr. Kirk ad been striving for everything that the association had been working for, and had een striving in every way: he had files his office that proved that, but the final eision did not rest with the Division. they formulated their scheme, and ad-^{loc}ated it with sufficient "punch," they ould get all the assistance Mr. Kirk could live them. It was the beekeepers who must convince the Department, the Direc-Or-General, and the Minister. He thought hat they would get on better by going for Chief Apiarist and for an increase in the aspection staff.-("Hear, hear") This should be done by showing the Director-General and the Minister the absolute ne- occasions. Had nothing been done? Why essity, in the interests of the industry, should it be passed again?

for foul-brood being controlled, and the impossibility at the present time for those employed by the Department to give the result beekeepers were asking for. They should go directly for cleaning up districts where foul-brood existed; it did not matter to beekeepers how that was done so long as it was done. By doing this they would be working along the lines that the Division had been working in their behalf for some considerable time.

Mr. A. Ireland moved as an amendment, and Mr. W. E. Barker seconded-""That this Conference urge upon the Government the necessity for the appointment of a Chief Apiarist and an increase in the staff of inspectors."

The President suggested to Mr. Bray that he should withdraw his motion.

Mr. Bray said that he was inclined to stick to his motion.

The amendment was put, and was declared carried. A show of hands was demanded; only ten voted against the amendment.

On being put as the substantive motion, the amendment was declared carried unanimously.

The President: I would like to convey to Mr. Campbell the fact that we are unanimous about this business, and that we are in earnest about it: we want something done; we don't care how it is done, but we do want foul-brood controlled from one end of the Dominion to the other, and an end put to the present-

A Voice: "Tinkering,"

The President: Yes, tinkering. It will pay the Government-it will pay the country to do it; and it will increase the wealth of the Dominion.

ISLE OF WIGHT DISEASE.

Mr. E. G. Ward moved the following portion of the Executive's first remit:-That increased vigilance is necessary to prevent the introduction of Isle of Wight disease into this country, and that the importation of bees, queens, and honey should be immediately stopped.'' He said that they could claim that in New Zealand they had as good bees as could be got, and foulbrood was the result of importing queens from other countries. Foul-brood being in the country was spreading wholesale.

Mr. C. A. Jacobsen seconded.

Mr. A. Ireland said that a similar remit was agreed to unanimously on two previous

The President: We have to do a lot of N.Z. Co-operative Honey Producers, things again.

Mr. F. C. Baines said that Mr. Kirk told him the previous week that he had placed the matter before the Government for five years, and had urged the prehibition of the importation of queens, bees, and honey. There was a big risk in importing honey from Australia, where the "disappearing trick'' disease was prevalent---a disease that little was known about. There was danger of the disease being imported with the honey.

Mr. W. B. Bray said that the "D.T." disease had been in existence for the past 15 years. The Victorian Bacteriologist sent to New Zealand for some bees, and ment graders in Christchurch. found that the "D.T." disease existed in the Dominion.

Mr. Irwin said that Mr. Kirk apparently had done all he could; there was someone higher up than the Division who had prevented the beekeepers from getting satisfaction, and was blocking them. How were they to get their "punch" in?

Voices: "Members of Parliament."

Mr. Irwin: We should get our "punch" in there as quickly as possible.

Mr. Sage said that while this prohibition was desirable from the beekeepers' point of view, was it fair, seeing that New Zealand was exporting quite 75 per cent. of its honey, to prevent honey from other countries coming in?

Mr. Gardener strongly objected to the importation of bees; but the life of a queen was only four or five years. At the end of ten years what sort of bees would there be in the Dominion?

Mr. McLean: Why cannot New Zealand breed as good bees as those that are imported?

Mr. Davies said that his Branch had passed a strong resolution on the subject.

Mr. Watson suggested that if "honey" were cut out of the motion, it would be agreed to without opposition.

The mover and seconder agreed to the deletion of the word "honey" from the motion, which was then unanimously agreed to.

GRADING HONEY.

The President said they now came to the third remit from the Executive:-""That that if all the cases submitted we some new system of grading should be adopted in order to relieve the inspectors, one lot; where there was a noticeable and make it possible for them to concen- ference in the colour or flavour, it trate on the inspection work." gested that representatives present of the mark the cases, as it assisted grading-

ciation should speak on the matter,

Mr. C. F. Ryland said that the H had realised for some time that the presystem of grading was not entirely factory-it was not sufficiently elasti enable them to satisfactorily open up kets in countries other than Great Br The matter had been before the Boar Directors, but all the necessary data not been collected, nor had there an opportunity to go into the matter the officers of the Department. Mr had informed them that they would an opportunity to talk the matter with Mr. Campbell and the three Gov

The President said that they wa some better system of grading in that the grading should not take un time of the inspectors too much. He: gested that Mr. Campbell should e with the representatives of the HI and report to Conference.

This was agreed to.

DEALING WITH FOUL-BROOD.

Mr. W. Kennedy asked why no prot tions had taken place in respect of existence of box-hives in the Methven trict last year. He alleged that the ow of the box-hives did not destroy the and honey.

Mr. E. A. Earp, Government Apiar structor, said that when Mr. Ken mentioned the matter to him last ye (Mr. Earp) sent inspectors to the dis They had rid the district of most of box-hives. No prosecutions had place, that being at Mr. Kennedy's ex wish.

Mr. Gardiner asked why Mr. Earp been guided by a beekeeper.

Mr. Earp said that he had seen necessity for prosecuting, as they able to get rid of the box hives wi going to that length. They were fir all instructors and then inspectors, and Department's policy was to prosecute as a last resort.

DISTINCTIVE MARKS ON CASE

Replying to Mr. Ireland, Mr. Earp uniform grade, then they were pass He sug- necessary on the part of the beekeel

PENALTIES FOR BREACH OF ACT.

Mr. Ellis moved:—""That the Conference affirm that the maximum penalty for reaches of the Apiaries Act be increased 220."

Mr. Baines seconded, and said that Mr. sik had brought the matter before the schorities, but nothing had been done.

Mr. Campbell said that owing to Parliaent concentrating on war legislation, it ad been impossible to get the Apiaries at amended. It might be possible to get amended during the coming session.

The President suggested that the motion would incorporate a remit from the Greyouth Branch that the minimum penalties muld be £2.

This was agreed to, and the motion was appeted.

REMOVAL OF HIVES AND BEES.

Mr. Ellis seconded.

Mr. Bray suggested that the prohibition should be "from one place to another," and that the Act should be amended by keeping the word "knowingly" from the section dealing with the removal of bees, lives, and appliances.

The motion was discussed at some ength.

Mr. Campbell said that an amendment of the Act would be necessary. Certainly something more definite should be done in respect of the removal of bees and the pread of disease in that way. He thought that the motion should refer only to bees, lives, or appliances when they changed wnership; that would not interfere with a beekeeper shifting bees of his own to n out-apiary in another county.

The motion was agreed to.

HONEY AND METHODS OF HANDLING.

The President read the following paper:

Mr. Chairman, — I am down on the proramme to open a discussion on the subect of "Honey and Methods of Handing." In order to be concise and to the oint, I have put what I have to say on aper. It is a common saying that no two aces are exactly alike it is equally applicible in the case of honey. No two honeys are exactly alike in colour, flavour, and exture. Every plant from which the bees

gather nectar gives a honey having its own characteristics in the qualities mentioned. In colour they vary from water white to almost black; in flavour from the luscious white clover to the nauseous ragwort; and in texture from honeys that extract quite easily to honeys that refuse to leave the comb at all. Added to this is the fact that bees may and more often than not are gathering from varying sources, and that therefore nearly all of our honey is mixed in the hive, and on that account the variation is still greater. Under these circumstances the marketing of our honey is made very difficult, and very often results in a good deal of dissatisfaction. We have no standard, known on the market, on which we can quote. What has been done has been to class the honey according to colour-water white, light amber, medium amber, and dark,-but each of these colours represents a range of colour equal to one-fourth of the range from water white to dark. They also represent a range of some five or six other qualities on which they are graded, the outcome of the whole arrangement giving such diversity of result that no standard of any use to a business man on the market is arrived at. The proof of my contention in this respect is available in the business of the H.P.A. When it was determined to push our present system of sales on the local market, a standard became at once necessary. The classification and grading of the Department gave no standard, and therefore was of little use. The only way to get a uniform standard is to blend to one colour and flavour, or as nearly so as possible. This is being done at Auckland, and the results are proving very satisfactory, though in the south the standard set is regarded as rather dark. Still the object aimed at has been gained-the honey is being sold for forward delivery and according to standard.

With regard to Government grading, while I disagree with the schedule adopted as being unnecessarily complicated, I admit that the classification by colour is all that can be done—that is, as long as grading of individual beekeeper's lots is done; but I maintain that the system of grading for the individual will break down; that as our industry grows it will prove more and more unsatisfactory, until something is found to take its place.

After a good deal of consideration, I have come to these conclusions:---

 That in order to successfully market, it is necessary to standardise, both in quality and colour of the honey, and in package.

2. That the only way in which that can would go about it? He would have be done is by blending and packing sorted out into, say, three grades as in a factory; and

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3. That a simplified form of grading dealing with samples from 5 or 10-ton lots, instead of as at present from each individual 60 lb. tin, should then be adopted.

I do not wish to find fault with our present system. It has done good work, but we live in an age of progress, and the time has come when it must be superseded by something better. We are growing, and the possibilities that lie before beekeeping are far greater than most of us realise. Let me use an illustration packing sheds, and have the work , that will make my point of view clearer. Suppose that some twenty Dairy Companies, turning out an average of 100 tons of butter, are shipping at one port. It would mean 2,000 tons of butter, but the Agricultural Department can arrange the grading of that amount quite easily. And such is the confidence in their work that their grade note becomes the certificate on which the butter is sold. The grading is greatly assisted by the fact that there is very little variation in the quality of the product. The managers in those 20 factories are all taught in one school; they are all working on similar lines. A standard of quality is easily reached, and the buver has come to know that standard so well that he buys with the utmost confidence. But suppose that the 400 or 500 dairy farmers who supply those factories were to resolve to manufacture at home, and send their butter to the port for grading for shipment. What about it then? Some of it would be as white as the milk it was made from; some of it would be extreme at the yellow end; some of it would be streaky; and some of it would have other qualities. Texture and flavour, and in some cases aroma, would come in. Now, how is the grader going to get a standard out of that lot? Well, that is just exactly what our graders are trying to do for us in honey. Perhaps you will say, "Yes, but the butter is a manufactured article, and the faults are those of manufacture. Ours is a finished article. Can we not by a simple process of sorting out reach a standard?" No. we cannot reach a standard; we may, if we sort it out sufficiently, reach a dozen standards, and the variation in each of the dozen will be its main characteristic. Suppose to carry our illustration a little further, that Mr. Ryland had the job in a co-operative way to sell the butter of those 500 dairies, how do you think he it is produced.

was received, blend each of the grades a butter worker, and then have it grad for the market.

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In our fruit industry we are up again the same trouble: we want standards export. These are, as in honey, fixed regulations, and the Government grader the judge of our success in conforming We find that the indivi standard. orchardist, in nine cases out of ten, can handle his own fruit; he packs it. forwards it to the wharf, only to it turned down. We are compelled in own interest to form companies and by expert packers who are not personal interested in the fruit. Then we an even standard of fruit and pack. the grader passes it as it leaves the s

radi In dairy produce it is a matter of mar facture; in fruit it is a question of sortin 28 C] and culling and packing; in honey it a matter of blending to bring our list take amber honeys to one uniform standar int and to do the same for medium and da no My contention is that blending would be for our honey industry what the factor M system and the packing shed have done for the dairy and the fruit industries, and the men we will never get a satisfactory soluti of our marketing problem until we add it. Further, the attempts to standard by grading alone is costly and unfair all the industry, because it monopolises to much of the time of the Department, and cannot in my opinion succeed.

The opinion has been expressed that t factory handling will add to the cost the honey. I have not the figures to e trovert that opinion, but the detail of t expense incurred under our present syst judging by the amount of work done, not much work is done for nothing the days, will probably show that the factor is very little if any more expensive; may, when storage is taken into accou and certainly will when home work taken into account, prove a great savi One of the great drawbacks to our pres system is the bogey of granulation. have to store our honey at home until

granulates. This may be anywhere fr two to six months; usually the riper honey the longer the time. This del coming at the end of a year's work produce the honey, makes it a great ter tation to try and realise in some of way. Most of us want the return for year's work as quickly as possible at

all forward movement must come the rank and file of beekeepers. wither the H.P.A. nor the Apiaries Dethis matter. I feel certain that as far fetch. blending is concerned, Mr. Ryland fully ognises its value from a marketing int of view, and that Mr. Kirk will welme a system that would bring our honey to line with dairy produce and fruit, and rading.

Chairman of the H.P.A. I fully appre- progress. the, that we must be careful. As we ke each forward step we must prove it, nt don't let us be too slow about it. We mow all about the early bird: let us follow bulk. is example.

Mr. J. Rentoul said the question of fermented honey had engaged the attention t the H.P.A., and they would like to the Bacteriological Department take question up. As to grading, it was I behind, and the only way out was to rade in bulk, and that could be done nly in bulk stores. Blending could be me only by experts; the H.P.A. was oing it, and had been fairly successful. Provided honey was delivered into bulk ores, all the season's honey could be lended so as to get uniform grades of ach colour, and the season's output could graded in a few days instead of onths.

Mr. C. F. Ryland said that the H.P.A., hich was purely a business proposition, "face, appeared to have decided advan-"face, appeared to have decided advan-"(Last season I gave 'paddling' a good ad decided that the depot system, on the "es over the present system: it meant saving of time and money, and a con-the better return to the producer. It have suffered before ''. In Northeast Start Mr. Ryland's) opinion was that it ould be entirely successful. It might be necessary for the regulations to be necessary for the regulations to be plified; he did not doubt the Depart- accidentally stumbled on a scheme of im-"Publied; he did not doubt the Depart- accidentary standard of a scheme of im-twould be willing to do so. As the proving the texture (grain), and also to "sult of blending in Auckland for the w Zealand market, the H.P.A. had sold

1 have been before the H.P.A. it had repeat orders in hand for a similar web to carry it out. My plea is quantity. The area in hand for a similar ¹ of this carry it out. My plea is quantity. The price received was considerably in advance of that previously obtained, and consequently the H.P.A. looked upon the experiment with some ether the will be any better than we make degree of satisfaction. He emphasised the artment do they want to be. Neither necessity, in connection with the export and not dependent institutions. Their trade, for provision being made for a them are need the pulse of the industry grade lighter in colour than "white"; the New Zealand grade of "white"; the are ful that both of these institutions sidered to be "light amber" in certain come forward-Mr. Ryland for the overseas markets, which meant in America A and Mr. Kirk for the Department- that it fetched 2d. to 21/2d. less in price tell us what they are prepared to do than honey graded as "white" would

Mr. Campbell said that anything considered by the Conference to be of advantage to the industry, or that went to maintain standards and reduce labour and simplify methods of handling and gradake it possible to do satisfactory work in ing, would be very readily taken up by the Department. If they could standardise lagree with Mr. Rentoul, whose work methods they would make considerable

> In further discussion, speakers referred to the favourable experiences they had had in respect of dealing with honey in

> On the motion of Mr. Bray, seconded by Mr. J. C. Gibb, the President was accorded by acclamation a vote of thanks for his paper.

"PADDLING" HONEY: IS IT ANY GOOD?

Mr. Fred C. Baines read the following paper:-

I am going to preface my remarks by making a few quotations from old Journals.

In August, 1914, I gave a description of paddling honey for the elimination of a coarse grain whilst it is granulating. In December, 1914, Mr. F. A. Jacobsen gave an article bearing out my remarks. In d been decided to start the experiment never suffered before." In November,

can take an objection. On one occasion can take an objection. On one occasing light of my experience and the state of an uncapping can of these samples, that I have the I had overlooked removing some norm of these samples, that I have each from the lower part of an uncapping until it my case that "paddling", mad from the lower part of an aneapping until it my case that "paddling" that had drained from cappings until it my case that "paddling" had so far granulated (though still soft) that it would not run through the honey There was quite 100 lbs. in the can, tap. There was quite 100 ibs. the honey and knowing that by stirring the honey it would be made soft enough to run, I worked it well with a wooden paddle until it slowly ran through the tap. Not having been properly strained, I set this honey apart from that I was marketing. Some time after, when it had become firmly granulated, I was surprised to find the grain or texture of this honey much finer and the colour somewhat lighter than that extracted from the same combs. After giving the matter much thought, I wondered whether the stirring of the honey had made the difference, and as the last of the honey had been extracted I had to wait until the next season before conducting conclusive tests. The results of several tests proved to my own satisfaction that stirring honey when commencing to granulate does improve it.'

These remarks by experienced beekeepers would naturally confuse any one who really wanted to know whether "paddhoney was a desirable thing, and ling' the object of this little paper on the subject is to bring about further discussion on the matter, as I personally believe in "paddling" for improving the marketable value of our honey.

I have here a sample of honey as taken from the tank previously to having 20 lbs. of granulated honey stirred into it. This was extracted in December, 1916, and as you see is not properly granulated yet, and what granulation there is is very coarse and sugary. The specific gravity of this honey is 1,480, which indicates that it is well ripened, but for all that it hasn't granulated. This other sample is the same honey after treatment, which, you will notice, is to all appearances a much superior honey, with a finer grain, and the grader's remark on the grade note was "A remarkably fine flavour for a dark amber honey." Grading, B Grade, with 89 points.

The sample here is one of my last season's crop taken before "paddling," and although extracted in February last is really not firmly granulated yet. This other sample is taken from the same tank after treatment, and here again you will admit there is an improvement in the ing under the educational scheme and grain; also the colour is a field grain; also the colour is degrees lighter. The specific gravity of this honey is 1.485, signing of the Armistice.

I think you will all agree that

There is, however, just this to he that, like many other good things be carried too far. You can stir whilst it is granulating to such that you will eliminate all the grain get it into a condition resemblin densed milk, only a bit firmer. The will have a silky appearance, an never granulate hard and firm. It is stirring has been carried to excess honey has been turned down, all there have been cases where honer has been allowed to granulate nat has been turned down for soft grand

I can only say that I have pra "paddling" now for five or six year the only honey I had refused for was a small lot that I did not tre I didn't think it was worth the tr but the result proved that it would been.

My practice is to save about 30h honey from the previous season, had been treated. This is put kerosene tin, and then filled up wi liquid honey from the tank, and stirred until it is in a liquid grand state. The whole is put into the and stirred for about a quarter hour with a paddle made of a pi timber 9 x 3 x 2 inches, with a broom let in. The honey is kept well o and allowed to stand three days, wh will be found to be granulating through. It is then stirred every until it is in a state of liquid granu when it is tinned off.

I hope these few remarks will le a profitable discussion.

The samples shown by Mr. Baines critically examined by the members it was generally conceded that the raised in Mr. Baines' district was deci improved by stirring.

A brief discussion ensued, and Baines was accorded a vote of thanks

BEEKEEPING IN ENGLAND.

Mr. A. R. Bates gave an address "Beekeeping as I Found It in England in which he dealt with his experie whilst acting as an instructor in beek by the N.Z. Expeditionary Force after

After the signing of the Armistice, I Major Norton, of the Bristol and The Department procured a fairly of handling. omplete set of appliances, charts, &c., been this being my first introduction to bees in the Old Country. Te paid £5 for the stock: a 10-frame we storey hive; Italian bees. They by the Kent Association at Rochester, a were much more gentle than any I had wer seen: we could handle them without mutection of veils or smoke. I put about "diggers'' through the course, and with the other instructors' efforts, cultural College, which primarily is desepers for New Zealand. I wrote the on diseases, and has a sideline on beekeepsecretary of the B.B.K.A., stating the ing, just being started with about a dozen work I was on, and asked for information s to beekeepers in Devonshire we could Mr. Taylor's Bee Supply Factory at Luton. nsit; also for literature that might be I was particularly interested in his Weed reful. I received no reply, but was sent foundation plant, which was turning out catalogue of beekeepers' supplies. mber of beekeepers I met in England poor quality in comparison with American ince had a similar grievance against the B.B.K.A., which appears a moribund institution.

After a good deal of "fossicking," I met a number of men in a small way of business all keen on bees and interested very much in New Zealand conditions. Several of them practised migratory beekeeping, moving their hives to the Dartmoor Hills in July for the heather flow. There are thousands of acres of nothing but heather, producing a dark aromatic honey, the consistency of our manuka. Sections of this were retailing at 3/6 per lb. The only apiary of any size I visited in Devon was one of 100 colonies at Buckfast Abbey run by the monks, quite as up to date as anything in New Zealand. Their hives and gear were Root's manufacture. Amongst other items of interest were an electrically driven extractor and ^a queen incubator, the latter being necesary owing to sudden drops in temperature ometimes experienced. As Isle of Wight isease had made great inroads among the bees in the South of England, the monks Were finding it a better proposition to aise bees for sale than produce homey. Three-frame nuclei were being sold at 2 10s. Our party was made very wel-"Ome, and shown over the apiary and viction that the germs were never carried Mant. The brother in charge attributed in the honey. In reply to questions, he his success in combating disease to keeping a good hardy strain of Italian hees, and spraying "Izal" about the hives after cleansing flight by the bees. While at Porquay I conducted parties of prospective bees at Norwich Show, and had a very beekeepers to Bristol, on the invitation of interesting chat with the gentleman in

After the and accepted the appointment Dominions. We were very hospitably enas offered and in beekeeping under the N.Z. tertained, and shown the process of packing New Zealand honey for the retail meneed at Torquay, giving a short market. One cannot speak too highly of on the care taken of our produce and methods

Later on I was transferred to London, and was fortunate in being able to make several visits to beekeepers in Kent. 1 was invited to attend a Field Day held very pleasant outing. Here again I was unable to get in touch with any commercial apiarists. In company with a fruitgrowing party I spent a day at Wye Agriand ensure a good swarm of new bee- voted to fruit culture and research work colonies. My next visit of interest was to A one and a-half tons weekly, though very and New Zealand makes. Mr. Taylor was acting as distributor for the Government of imported supplies, and was storing 1,000,000 sections landed from America. The Government has a big re-stocking scheme on hand, and is importing thousands of stocks of bees from Holland. The Dutch bees are slightly smaller than our blacks. They were at first thought to be immune to disease, but later experience showed differently. Mr. Taylor had about 50 stocks recently landed, all in straw skeps, which still exist in considerable numbers. Beekeepers seem very adverse to any control by means of Apiaries Acts.

> A small party of us made a trip to Kilmarnock Agricultural College, where the bee expert, Mr. Tinsley, showed us over the apiary-60 to 80 colonies. A number of cadets were being trained similarly to Ruakura, and a considerable amount of research work in connection with bec diseases was undertaken. Mr. Tinsley wished me to send him samples of our honey, stating sources from which it was gathered, for analysis. He stated that foul-brood was no scourge with them, and they never destroyed a comb because of it. They de-queened, and allowed the bees to clean it up. He also had a firm constated that he referred to ropy American foul-brood. Must be milder than ours!

I witnessed a demonstration in handling

charge of the bees. He had a nice-looking docile lot of bees, and offered to present docile lot of bees, and onered to prove the tions-that it should be taken up at me with a couple of queens to take home Government apiaries. She falt with me. I thought the risk of importing Isle of Wight disease was too great, and did not accept. He gave me addresses of several apiarists, including one with 1,000 colonies, but unfortunately marching be expected to experiment in the matter orders did not enable me to make a visit.

Beekeepers in England appear to be under many disadvantages in comparison with New Zealand conditions. Apart from a more severe climate, which compels them to use double walled hives, they lack the organisation and co-operation we happily possess. The commercial men appear to have nothing to do with the B.B.K.A., and there is talk of forming a new Association. The standard frame adopted in England is not altogether satisfactory, being onethird shorter than the Langstroth, and the split top-bar is a good home for wax moth and a nuisance to attach foundation in.

The hives in use appear to lack the simplicity of design necessary for cheapness and easy handling, and a number have various contraptions attached that appear anything but desirable. The beekeeping journals print a lot of advertisements for drugs to cure or prevent bee diseases, though most prominent beekeepers pronounce them useless. During the war, owing to sugar shortage, the Government would not allow any to be used for bee feed, and numbers of colonies starved out. Next season they had a lot made up into candy costing 1/- a pound, medicated with bacterol and coloured pink. A slip attached pronounced it unfit for human consumption. Probably it was, as there were many complaints of bees fed on it dying off

I do not think at present we can learn a great deal from the British beekeepers. except what to avoid, but some of the colleges devoted to research work should produce good results. We might with advantage have similar institutions in this country.

Mr. Bates was accorded a vote of thanks.

IMMUNITY FROM DISEASE.

The President said that Miss Shepherd had suggested to him that Conference might discuss the question of breeding queens for immunity from foul-brood.

A brief discussion ensued, and on the President's motion Miss Shepherd was thanked for her suggestion, and was assured that the Association would assist her in every way possible.

Miss Shepherd said that she would the question tested at experimental Government apiaries. She felt quite that the thing could be done if it , taken up with determination. She not think that private beekeepers show

PARLIAMENTARY ACTION

Mr. J. McCombs, M.P. for Lyttelton . tended, and briefly addressed the Conf. He suggested that a deputation ence. from the Conference should wait on members of Parliament for Canterbury their next meeting.

The President thanked Mr. McComb for attending.

"NEW ZEALAND FLORA IN RELA. TION TO HONEY.'

Mr. W. E. Barker read the followin paper:-

Mr. President,-When the ever-pressin Mr. Baines urged me to contribute an a ticle to this Conference on the flora New Zealand and its relation to our hone I, like the ladies, felt I could not resi him; but I am an old man, well stricker in years, and abominably lazy. I decide to compromise, and give a re-hash of former paper read at the Beekeeper Conference some years ago, which seven of our grey-heads will no doubt recognis adding thereto a little that may be of i terest to all honey producers.

It has been said that the native flow of New Zealand was of very little use beekeepers, as the flavour of the hone derived from this source was so pronounce as to be in some cases unmarketable. would combat this statement: 'tis t flavour of our native flora that gives our honey that "click" which makes lead the world. "Pure Clover Hone, is but a tradesman's term that has cau the public eye, but not its palate, and most it is an insipid article, and lack flavour. It is on a par with "Prime Can terbury Lamb'' as a good selling nam Anyone contemplating setting up as producer of prime extracted honey should see that his apiary site is contiguous an area containing a good percentage our native flora, so that the clover hone he produces may have that added flavol that the public appreciates.

This studying of the flora of our respt tive districts is not sufficiently practise by our apiarists. A man should so know the nectar producing capabilities of th flora in the district his apiary is situate

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as to work up his bees to be in a sition to make full use of the flow as comes along,, for in no industry is the more true than to that of the honey, producer that "the race is to the swift.

Some of our flora is undoubtedly very grong. That from the kowhai, for intance, is as bitter as gall, but as it dowers so early in the spring, it serves as pring feed, and is all consumed by extrac-ing time. That from the fuchsia (Konini), which should be extensively cultivated and preserved by all beekeepers, as it is so asily and quickly grown, gives to our honey that exquisite flavour known on the London market as the "muscatel"; and hose who are situated near the rata know that a distinctive and pleasing flavour it gives to the local product. But it is more the general admixture of the flora of the district as a rule which gives to our clover honevs their superior flavour.

One very puzzling peculiarity of our native flora is the way it is at times neglected by the bees. I have aforetime mentioned how seldom they work the manuka with me. This year the hini-hini flowered most profusely, scenting the whole air of an evening with its sweet perfume; vet, notwithstanding the lack of clover blossom, it was totally neglected, though assailed greedily by other flies. The native vine also flowered in May, and though visited by ordinary flies-even some of the hymenoptera-was unvisited by the bees, though flowering close to the apiary. Yet they seemed very busy, and the only other available supply I could think of they could prefer was the Cape-weed, and that was almost conspicuous by its absence. If the vine and the hini-hini were producing nectar, why were the bees not seeking it? If they were not, what was attracting the other flies? In fact, the bees this season seem peculiarly contented-what with, I am at a loss to discover. Perhaps they were, like the Socialists, as they are said to be, just diving into one another's homes, living, so to speak, from hand to mouth. But all joking apart, I am inclined to think that the true reason is that though the native flora flowered so profusely, it did not to any extent secrete nectar owing to the lack of suitable atmospheric changes, which undoubtedly greatly influence a good flow, for it was a poor honey flow all over New Zealand; so whilst the ordinary fly, which truly can be said to live from hand to mouth, stopped to the flora's scanty sweet supply, the more provident bee went to where the more provident bee went to where the same to make good the loss; so, like-supply was more adequate to the energy wise, when the bees fossick for nectar,

expended. It is rather remarkable that that large family of plants, the Coprasma,. so well represented in our mountainous districts, the micky-micks of the colonists, so conspicuous with their varied coloured berries are non-nectiverious, depending on their fructification to rude Boreas; in other words they, like the nut-trees, are aerobic, and hold out as a bribe to the birds instead their bright drupes, who in turn disseminate their species for them over the land.

A peculiarity about New Zealand trees that does not seem to have been much commented on by apiarists is that manyof them take two years to mature their seeds, during which time they constantly secrete nectar, which is greedily collected by the bees both in the spring and autumn. I mention particularly panax and lancewood, which hum with contented bees at these seasons. Being situated near a patch of bush, I seldom resort to spring feeding.

It should be remembered that all trees are capable of producing honey from either their leaves or from the combium laver. or inner bark, given certain atmospheric changes. This is not honey-dew, such as is secreted by aphides, but true nectar. I have known a tree that for years had been sheltered in a plantation, on its fellows being removed, secrete such a copious flow from its bark and leaves that it burst the outer bark and produced more nectar than the bees from the adjacent apiary could collect, and a perfect orgy of drunken bees and moths ensued at the foot of that tree. There the stored-up starch of the tree was suddenly converted into saccharine by exposure to the sun's rays.

A still more interesting observation was that recorded by Mr. Stewart, who found the bees in the North of Auckland working the bracken fern, a well-known storer of starch in its roots, but one that one would never expect to turnout a producer of nectar. So that at any time an apiary situated near our native flora may derive an unexpected flow from such sources. I have no doubt it was from the irritating of the bees in search of food at the base of the patioles that originated in prehistoric days and permanently fixed the nectaries from which the modern bee obtains its main supply, and in the course of ages greatly accentuated that flow. And here we beekeepers become the friend of the farmer. When the farmer milks his cow, he induces a flow of milk into the lacteal glands, and that induces the cow to pull the grass to make good the loss; so, likethey induce a copious flow of the same, which induces the roots of the plant and the leaf alembics to elaborate an excessive supply of saccharine. It is just the ordinary application of the law of demand and supply unspoilt by the go-slow policy. Anent which Mr. Tarlton Rayment, in "Money in Bees" (page 270), falls into a nectar only as an inducement to insects to visit them, and thus carry the fertile pollen from flower to flower. In this way seeds are made fecund, and the species multiplied. For instance, a newly ' rung tree will yield honey very heavily in the endeavour to have as much seed as possible made fertile in order that the seed may be perpetuated." This is surely attributing immediate reason to plants. What actually occurs is that the cooling sap supply from the root system being cut off, the overheated sap gets turned into saccharine. This is well seen when an apple tree gets ring-barked by a hare; it may bear fruit for two or three years, and each year the fruit is more and more highly coloured. Thus also we induce pears to fruit freelynot because the pear thinks it will no longer be able to reproduce its species, but because under ordinary circumstances it produces such a ready flow of sap that the leaf alembics without its curtailment cannot transform it into that quantity of reserve saccharine matter which we desire, and call pears. Again, at page 246, in a rather obscure paragraph, when touching on "rung" trees, he makes the somewhat amazing remark: "Possibly honey secreted under such circumstances is deficient in some of the elements necessary for the maintenance of bee life, that honey from any plant during normal life should be detrimental to insects, it is hard to believe," &c. The contrary is the case; one can well believe that the large family of eucalypts in their young and vigorous stage may often secrete a nectar deleterious to bees, yet that when "rung" that same nectar may become innocnous. for the sun's rays being able to re-work and ripen the same in the cells of the tree, eliminate in the process the deleterious substance. We see this process in our own flora, as in the case of our so-called poisoned honey, attributed to Ranunculus rivularis, and possibly others. No doubt in the gathering of that honey, as with the eucalypts, a great diminution of bees may be observed, and the honey brought in may poison those who eat it; but if given time in the hives to artificially ripen, the delterious substance is driven off. Very likely, I think

this may account for the apparent neglem in New Zealand of the native flora t itimes: the bees become "gun shy." as if as thoughtful as Mr. Rayment sets to think plants are, they probably "Thanks, no more to-day; that last h gave me a pain." In point of fact, e trarywise, how little mind enters into t economy of plant life may be guessed the case with which we fool plants in producing double flowers.

"Exulting Nature so delights, So riots in profusion, she Twice over does her work for glee A tangled intricacy first she weaves, Under and upper growth of bush and In rampant wrestle for ascendancy

The botany of New Zealand as a w is of a most interesting character, has run foul of my geological studies many points; and these points affect the bee industry. From a geological p of view, New Zealand is most interest as being evidently a relic of an and continent, now plunged beneath the d of the sea, extending from the Antan to South America, and also to Nori Island. A great preponderance of plants are identical with those of Ten del-Fuego-i.e., our birches (or Faga which by the by is often the beckeepe bane on account of its being so, had to be attacked by aphides which secret large amount of honey dew-Fuchsia corticata), pepper-wood, kowhai, bro leaf, veronica, &c. This to a geolog points to a land connection at some P date. Then came on apparently a gre change in our climate with its concomita fight for existence amongst things livit and gradual change of foliage to meet same. As the poet, Shelley, beautiful put it-

- "Those wastes of frozen billows that " hurled
- By everlasting snowstorms round Poles,
- Where matter dared not vegetate or ^[0] But ceaseless frost round the vast st tude;
- Bound its broad zone of stillness, are loosed,
- And fragrant zephyrs there from spi isles
- Ruffle the placid ocean-deep, that ^{re} Its broad bright surges to the slopi sand.
- Whose roar is wakened into echoil sweet,
- To murmur through the heaven breathingroves,
- And melodise with man's blest nature:

those deserts of immeasurable sand, those age collected fervours scarce allowed

bird to live, a blade of grass to spring, where the shrill chirp of the green lizard's love

proke on the sultry silentness alone.

Broke teem with countless rills and shady woods,

unfields and pastures and white cot tages.

ans evidently our lancewood, which in young state is such a characteristic sture in our bush, having a mid-rib so igh that in the early days we used to them for boot-laces, in a warmer imate had such a stout mid-rib to supart a very broad leaf, when it had to mserve its powers to exist, it lessened s breadth. But should the climate hange gradually once more, in the course f ages, it could once more revert, so ong as in its cell-contents it preserved ais embryological structure. The lancenod is a prolific honey producer, often the autumn, and is strictly dioetiuse, the plants are either male or female. Now, this is another interesting fact that points to the great antiquity of New Zealand. No other country has so many plants either dioetius, or partly so. Now, being stationary is a distinct handicap to plants in the race for life, for when they want a mate they can't go in search of one, but have to trust to the wind or to insects to bring them that blessing. /Here I may say we are up against one of the greatest mysteries of the world, which makes it to me worth living in-that is, the deliberate bribing by Nature of the higher orders to do its requests. Here, for instance, we see a beautiful red fungus (Assoe collenzoii) protrude its fingers out of the earth. We stoop to pick it, and are repelled by its offensive odour. The hungry blue-bottle, on the other hand, stoops, deluded, on its mid-flight in search of carrion, sups of the fetid mass, and so fulfils Nature's desire by carrying its conained pollen masses to the next fungus hat peeps expectant out of the neighbourng soil. So with plants of a higher order: e find them also holding out bribes to birds, bees, and other insects to do their ^{behests.} Our greatest scientists draw back defeated before these simple facts. As rofessor Bergeson sagely says: "Instinct ⁸ nearer to God than reason."

'How strange is human pride; I tell thee that those living things, To whom the fragile blade of grass That springeth in the morn And perisheth ere noon, Is an unbounded world;

I tell thee that those viewless beings, Whose mansion is the smallest particle Of the impassive atmosphere, Think, feel and live like man; That their affections and antipathies Like his, produce the laws, Ruling their moral state; And the minutest throb That through their frame diffuses The slightest, faintest motion, Is fixed and indispensable As the majestic laws That rule yon rolling orbs."

-Shelley.

One should have, therefore, expected to find New Zealand the home of the honey bee, and so it may have been in by-gone ages, and probably the species Apis Dorsata, the giant bee, now of India. But the same rigorous climate may have chased them away to warmer latitudes, their only representatives being now the small solitary bee that makes its burrows in the roadside. When I was a boy many a delicious feast I have had of honey and beebread-and mud-by inserting a straw in their holes and extricating the sticky mess. They, however, can have done little towards satisfying the natural desires of our Dioetius plants, so it is interesting to note that birds stepped in to reap the rewards so richly held out to them. (In passing, I may mention we have another interesting case of this in the weeping willow, another dioetius plant, a native of China, so useful to us for early spring feed. When the Pilgrim Fathers touched at St. Helena on their way out to New Zealand, they brought over willow cuttings from Napoleon's tomb; by accident they brought only the female plant, so every spring we have the widowed willow weeping for its mate, and producing thus for us a flow of nectar.) Thus in the course of ages a race of honey birds was developed, and so we have our beautiful songsters, the tui and the mako-mako-"'Eaters of honey, honey sweet of song." In fact, if you look up our early works on bird life, you will find the latter described as of two varieties-one having a red head and one a purple. Closer investigation, however, showed our ornithologists that this colouring was due to the birds, whilst supping up the nectar of the flax (Formium Tenax), getting their heads dyed red by its pollen, and whilst feeding on the fuchsia carrying away its characteristic purple pollen. For our scientific friends are not infallible. When I first went in for beekeeping, I was greatly puzzled by some purple material my bees were throwing out on the alighting board. 'I sent some to one of our leading professors. After I had posted it

I was reading in the bush, when a makomake alighted on a fuchsia, and stuck its head in one of its blossoms. In a flash came into my mind the thought, "That is where my purple material comes from." I collected some, put it under the microscope, together with some from the hives; they were identical. Next mail, to my great amusement, came a letter from the professor, saying it was new to him; was, he thought, the spore of some kind of fungus, and he was trying to germinate it!

It is the inconspicuousness of most of the native flora that makes us under-rate its value. The broadleaf, for instance, is a prolific honey producer, yet I expect few of you have seen its flower, Pitosporum eugenoides (or Golden Mapau Tarata of the Maoris); forgive the big names, but remember that most of them are Greek or Latin names that, to a botanist, contain in brief some leading characteristic that helps him to classify them. Thus, Fuchsia excorticata-the fuchsia that sheds its bark; and in this instance, "eugeneoides" comes from the same root as our word 'eugenics,' for this is a partially dioetius plant-i.e., if you find the pistil well developed, you will find the stamens wanting, or vice versa; is most conspicuous, and at times a great honey producer. Panax, or oilwood, is another; manuka, many beekeepers tell me, is much worked by bees, but is strictly overlooked by mine. Till this season I have never seen a bee on a manuka bush; but after a heavy day's rain, followed by sunshine, I was surprised to find them busily at work on them; then the hini-hini, or white wood, the kowhai, the parsonsias, the passiflora, the supplejacks, the muhlenbeckias, the hoe-hoe, the ribbon wood, lyalli, the wild Irishman, the Spaniard, all the veronicas, likewise Myrtis bullata and Carpodetus serrate, the Puta Puta Weta of the Maoris. (Note a sort of chamber with two lateral how they too named trees by some leading characteristic) "Puta-puta-weta"-i.e., the tree full of wood-devils (crickets' holes)all add their quota in due season. The rata, too, though often so coy to open her lips to the vagrant lover, is not to be despised when she does blossom out :--

"Flowers that with one scarlet gleam

Cover a hundred leagues, and seem To set the hills on fire.'

Then we have the native brambles (Rubus Australis), better known as bush lawyers, so painfully known to us all, indeed, who whose viscid contents eling to its otherwise love the buck otherwise love the bush.

"That vile twine of prickles fine, Which if it touch you cuts and clings Where'er you pass through brian

The bidabid also, whose clever but uny come attachment to ladies' petticoats many of you have experienced who h wandered up our beautiful bush trad The yellow clematis, whose fragrant see entices the passing bee to "sup a wa the native onion too, or the field lily wa be a more true and poetic term, the ha matapo, the currant wood, the senisios raioullias, the astelias, the meinuli other of our alpine and swamp flora, not be overlooked. Nor must we fa the flowers of our fields-the little ve clover or trefoil (Trifolium-fortune for you I forget the rest) is very prol likewise the pelargonium and the geranium each add to the sum total makes our business pay. The cabbage too (Cardelvne) gives a great vield e second or third year, though it is blamed for thick honey. Our stately and totaras too, though giving us honey, are valuable for their pollen duction. Fortunate individuals like Clayton and I no doubt gather ne from the beautiful mountain daisies mesias), whole fields of which bedeck mountain sides.

Lastly, our orchids should not be for ten, if only to bring before you ingenious plans to bribe our friends bees to pollinate their species. Take, instance, corysanthes, a small species which grows in our woods. Darwin s "This orchid has part of its labellut lower lip hollowed out into a great bu into which drops of almost pure water from two secreting horns which above it; and when the bucket is half the water overflows by a spout on one The basal part of the labellum stands the bucket, and is itself hollowed out The most ingenious man trances. never have imagined what purpose all parts serve. Crowds of humble bees the flowers of this orchid, not in ord suck nectar, but to gnaw off the within the chamber above the bucket doing which they frequently push other into the bucket, and their being thus wetted they cannot fly a but are compelled to crawl out passage forming the spout, or over first rubs its back against the stigma then on the glands of the pollen me thus effecting the cross fertilisation

blossom, should they visit another som and meet with another involuntary This no doubt on a minor scale place with our many and diverse es places of orchids. In fact, I know of ally wonderful. '

tadies and gentlemen, it seems very itable that we should be gathered here day, for a former citizen of Christchurch credited with having first introduced es into South Canterbury. The story that, being very much pestered with bebottles and hearing that the house-fly Insca domestica) drove it away, he went nto Christchurch to procure some, returnwith a bottle full. This was in the aching days. Arriving at Ashburton. here twenty minues were allowed for nch. he sat down to enjoy some. With s usual kindheartedness, he suddenly reembered his flies; they, too, must have me lunch, but with his usual impulsives instead of putting the lunch in the attle, he let the flies on to the windowmes to forage for themselves. Then me the cry, "All aboard, please!" and certain excited gentleman might have been seen frantically endeavouring to reapture his flies! However, I believe he eventually managed to capture some, and nfortunately they were of mixed sexes. He was also responsible for the introducion into his district of the Italian bee, bout which a good story is told. He ennired of an apiarist what Italian bees ost; being told one guinea, he ordered a ueen to be sent to him; and, expecting it ^{come} as in the olden days, he sent wn his wool dray for it. On its arrival ack, he had all the family rigged out in eils and pillow-cases to see the new bees rrive. "Where are they?" says Mr. 1PP, looking into his empty dray. "Here, quoth the carter, producing with a in the queen from his pocket.

Many are the kind acts Mr. Tripp has he in this neighbourhood. I remember had not been many days established in home when up trotted his waggonette ded up with nut trees, elms, &c., which Manted all about in my bush, and which ve since been a great stand-by to my s, especially the former, for, though ing partly dioetius, nuts do not depend bees for their fertilisation, but on the ind, and therefore have not troubled to erete nectar as a bribe; yet their catkins oduce an immense amount of pollen in ticipation of the spring winds blowing on to the inconspicuous red flowers or stils, which otherwise will not develop ments quoted was not with the idea of nuts.

It seems a pity that the early pioneers in this country did not plant out more limes or basswoods, instead of plantations of Pinus insignis; but I fear if they had they would have made this country such a contrivances in other varieties and of plenty that we beekeepers would not wish to prepare ourselves for that better land which so surely lies before us.

- "This world is the nurse of all we know, This world is the mother of all we feel,
 - And the coming of death is a fearful blow To a brain unencompassed with nerves
 - of steel;

When all that we know or feel or see, Shall pass like an unreal mystery."

- The secret things of the grave are there, Where all but this frame must surely be.
- Though the fine wrought eye and the wondrous ear
- No longer will live to hear and see;
- All that is great and all that is strange In the boundless realm of unending change.
- "Who telleth a tale of unspeaking death? Who lifteth the veil of what is to come?
- Who painteth the shadows that are beneath,
- The wide winding caves of the peopled tomb?

Or uniteth the hopes of what shall be With the fears and the love for that which we see?'

After a brief discussion Mr. Barker was accorded a very hearty vote of thanks.

DISCHARGED SOLDIERS AND BEE-KEEPING.

Mr. E. W. Sage spoke with reference to statements in a newspaper paragraph, widely quoted, to the effect that on the West Coast of the South Island, between Reefton and the Waihao Glacier, beekeepers could make £8 per week. He said that from what he heard, the district referred to was infested with foul-brood, and he thought it very unfair that anyone should make such statements as those quoted. A picture had been painted that he did not think would be ever realised. During the past two years between seventy and eighty beekeeping cadets had received instruction at Ruakura, and to these men the statements referred to would appeal as very encouraging: so it was, if it could be realised. His objection to the statecondemning the cadet system: he objected

to the statements because they were hardly a fair picture, and were not a fair thing to bring before cadets and returned soldiers.

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Mr. Bray endorsed Mr. Sage's remarks, and said it was not fair to advise men to start beekeeping in a district full of foul-brood.

Mr. E. G. Ward said that he had ten years' experience, and his advice was: Don't expect that you are going to have plain sailing all along the line, because you won't get it.

Mr. J. Murdoch said that he had been invited by the Editor to express his views on the statements quoted by Mr. Sage, and he had done so. Two seasons ago he got 1984/2 lbs. of honey per colony; from a very few hives, he thought 26. He was not a commercial beekeeper, but if a mancould average 200 lbs. of honey per colony he would not do so badly. He was pleased that the matter had been brought up, and if anyone was to blame for the statements quoted by Mr. Sage, he (Mr. Murdoch) was, and he was prepared to take any censure that Conference might like to pass on him.

Mr. Sage said he was pleased to have had the opportunity of hearing Mr. Murdoch's explanation. The fact that Mr. Murdoch had been able to get something like 200 lbs, per hive was no criterion. He did not think that the paragraph quoted represented the true position as relating to the whole Dominion, or to either the South or North Island.

The discussion then dropped, and Conference adjourned.

In the evening a melter demonstration was given by Mr. C. J. Clayton, whose machine did very excellent work, both with the cappings and with solid combs cut out of the frames. The separator is very ingenious and effective.

Mr. Clayton was given a very hearty vote of thanks for the trouble he had taken to give interest to the proceedings of the Conference.

Mr. G. Simpson gave a demonstration of his disposal of cappings by pressure, the honey being removed from the cappings by being placed in a very strong press similar to a wax-press, but much heavier. The cappings come out in a solid lump and practically dry.

Mr. Simpson's remarks were followed with great interest, and the thanks of the members were expressed to him.

Mr. J. Rentoul gave his system of swar control, and as the members wished for permanent record, he was asked to p the system in writing for the Journal. The Mr. Rentoul promised to do.

Mr. A. R. Bates gave a system of we tering bees now being practised in Taynaki by prominent men, which, bried described, is shutting down the bees on six frames by the use of a division-bean. They are kept in this state until the spin when they are fed with about 10 h of sugar syrup. This treatment retarheavy brood rearing in the early spin which in Taranaki is undesirable, as the clover flow does not come on until about Christmas.

Mr. Bates made it clear that he was to advocating this system for the whole New Zealand, but simply putting forther information for the general interest.

Mr. W. B. Bray gave an instructive a dress on the use of escape boards, and the successful use of them on hives without queen excluders.

The meeting adjourned at 10 p.m.

SECOND DAY-THURSDAY, 10th JUNE

The Conference resumed on Thursday 10th June, at 10 a.m.

APIARY BOUNDARIES.

A paper on "Apiary Boundaries," b Mr. R. H. Nelson, was read by Mr. 4 Ireland, who apologised for Mr. Nelson absence, due to his apiary having be destroyed by fire. The paper was as for lows:--

At the last Conference the consensus opinion amongst beekeepers present we that something in the way of apiary site control should be tackled by the Nation otherwise Mr. Ireland's motion wow never have been carried. Minutes of p vious Conference will show that this correct.

I had heard it stated often by be keepers that an apiarist had a moral right to his location, bee flight taken as our mile and a half round his apiary. To obtain the opinions of beekeepers on the important subject, I determined to cirrlarise the most prominent beekeepers the world over.

[Circular.]

"Sir,-Would you kindly give me you opinion on the following questions:-

 Has an apiarist, who is running a ^{com} mercial apiary, a moral right ^{to bi} location—that is, bee flight taken ^s 1¹/₂ miles from said apiary ^s

Do you think it is morally right for any other commercial apiarist to dump an apiary within three miles, two miles, or one mile from an established apiary?

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Do you object to having your opinion-(a) Published in the N.Z. Beekeepers' brie Journal; or (b) Quoted from the public s on platform at Beekeepers' Conference? 1-boar this subject is rapidly becoming of vital mortance to the beekeepers of New Zeand. I am asking as a favour the opinion retar the most prominent beekeepers all over world.'

as The people chosen were, I should imagine, abr representative bee farmers of their reective countries, and their opinions were as ole rates, The A. I. Root Co., Dadant & Sons, 'th f and Dr. Miller, of Marengo; Canada, Mr. L. Byer, of Markham, Ontario; Mr. Holerman; England, Mr. Herrod Hempsall; Ve a Australia, Major Shallard; New Zealand, 1d + James Allan and Mr. I. Hopkins. As it may have saved some time and bother at ithor answers to these, questions are here this Conference. d can be read, I need not quote them. r Miller was very ill at the time my ircular reached Marengo, hence his silence. Mr. Isaac Hopkins has not answered at all. UNE

Mr. J. Allan, President of the National, sday. the only one who answers the first quesion in the negative. The second question ou will see he has side-stepped. Mr. Allan tells us in his reply that he has been beekeeping for 36 years, &c. The Dadants have been beekeeping for three generations, ion and they have no difficulty in answering. hee There is a manly ring in Mr. Byers' reply which is foreign to the puerile arguments of the bee pirate. I quote him:-- "Selfrespect and self-interest prevent us from doing so. Lack of the first qualification Would prevent me from looking my neigh bour beekeeper straight in the face."

Mr. President and gentlemen, it was with a keen sense of responsibility and a desire to do well, to frame some measure that yould control the unscrupulous person and Ive even-handed justice and right to every ee-farmer in New Zealand, that was the preme desire of your Committee when hey met in Wellington.

Your Committee, since the publication of he six clauses that were then drafted, ave, instead of receiving constructive and riendly criticism, been subjected to the nost idiotic ravings that it has ever been bad luck to read. It really matters little to anyone whether the Baines' or any other clauses are put on the Statute Book to long as the said clauses cover the ground I venture to state that the properly.

Baines' two clauses do not. As no doubt Mr. T. W. Kirk will be present, he no doubt will explain why better than I can here.

Mr. President, may I suggest to you that it would have been advisable that at least one of your Committee had attended the Executive meeting in Wellington and explained to you and the Executive just what those six clauses meant. It evidently could not be done through the columns of the Beekeepers' Journal. It was my intention after the Executive meeting to explain the deficiences in the Baines' two clauses, when I found that Mr. Baines refused me publication; and he tells Mr. Smedley, of Te Awamutu (Journal April 1st): "This matter is still open.'

The longest way round seems to be the shortest way home here. If one of your Committee, had attended the Executive meeting, or the Journal been open for a free and open discussion of the whole position,

Mr. President and gentlemen, from correspondence that I have received since this discussion was commenced in the Journal, I am convinced more than ever that legislation is necessary in New Zealand to control apiary sites. Foul-brood is the bogey or herring just at present. What does this read like?

Re foul-brood, a beekeeper, not 1,000 miles from Christchurch, approached me. "I hear you have had some people dumping bees close to you, Bob. Is that so? I answered that it was so upon two occasions. "Well, I'd have fixed them," said he. "I'd have given them a dose of foul-brood; that would have settled them." And he meant it. He seemed to reason it out thus:--If this fellow is going to put me out of this location, I am justified in taking whatever measures I think fit to put him out also. Just so, and some of our prominent members say that we don't require legislation to control people who evidently cannot see straight.

Now, as your Committee have done their duty to the National to the best of their ability, and their efforts have been received by the heads of this Association with contempt and scorn, I can go no further, for the present, at anyrate.

In conclusion, I would take off my hat to Mr. T. W. Kirk, a gentleman in the fullest sense of the term, whose unfailing courtesy to all has been a wonder to us.

R. H. NELSON.

Mr. Allan's Reply.

"I have your questions. I have been a beekeeper for 36 years, and have risen to the high position of President of the National, but you have got me beat. answer shortly to the first, I would say, No. There are places in Europe where there are 1,000 colonies per square mile. (I have read that this is so in parts of Holland.) Now, your radius of one mile and a-half might easily in some districts support more than 1,000 colonies, and you might only wish to keep ten colonies. Would you refuse to let others who held the freehold of perhaps more than half of it keep bees also? The thing is monstrous. With regard to your second question, you would require to give more particulars as to district before I could answer. As I have all along said, I do not like monopoly in beekeeping, so much so that I would prefer to sit very tight on the man with outapiaries. My opinions are well known. but you can use them as you like."

A. I. Root Company's Reply.

"We have received a carbon copy of your letter of August, 1919, asking certain questions on the matter of one beekeeper locating an apiary near the bees belonging to another. As you evidently have copies of your questions, we are answering them by numbers.

No. 1.-If an apiarist has been in the field for a year or more, or before anyone else discovered it, he has a moral but not a legal right in this country to a location within a mile and a-half to two miles of his apiary. The range of bee flights vary in different localities. On level land, where the ground is covered with shrubbery or trees, bees will not fly as far as they will upon nake 1 land, or upon high ground where bees can fly across a valley or a body of water. In such cases they will go sometimes three or five miles, but on level land they will rarely go beyond a mile and a-half, providing it is covered with I have made, I would simply say that trees or shrubbery.

No. 2.-Two miles would be safer, and three miles better yet. One mile would be altogether too close. Ordinarily we should say that other bee-yards should not be located closer than three miles. This would give a range for the bees of both yards of a mile and a-half.

No. 3 .- You are at liberty to use our opinion in any way you see fit.'

Mr. Byer's Reply.

"Your letter to hand this a.m. Your queries re the moral right of a commercial beekeeper to his location (acquired by other side of the earth.

priority rights, I presume) to my mind some problems that are cult to solve. We are commercial keepers, I suppose, as we depend almost together on the bees for our living, and we have bees in out-yards in four diffecounties in Ontario, naturally we what it means to have others place near our yards. As to our opinion this phase of the question, I would say we would not think of placing near an established apiary-self-read and self-interest prevent us from so d Lack of the first qualification would vent me looking my neighbour beek straight in the face; and secondly our p would suffer as well, as overstocking m less returns from capital invested in h But some intricate questions come up this line of "moral rights" that I co are hard for me to solve. For instance I establish an apiary in a locality wi there are few or no other bees. A fam who has lived there and owned land that place for many years gets a col or two. He becomes more interested bees (possibly from seeing results we getting), and he gradually increases knowledge of bees, and his colonies as w till finally he has a large apiary, and location is overstocked. This is not field as it has happened more than once. The farmer was there long before my bees we there. Have I a moral right to say should not have increased his bees on own holding of land, while I have be renting a plot only large enough to acces modate our bees?. But in so far as t principles of the questions are concern speaking in a general way as betwee commercial beekeepers, there can be of one answer, and from what I have said the question you can easily see how would answer it.

You are at liberty to use what I ba said in any way you may see fit, and i desired to further amplify any stateme Golden Rule is a mighty fine thing for el mercial beekeepers to follow in their de ings one with another: it will prevent or stocking, bad feeling, and a host of oth ills incidental to humans better than a other thing I can think of-verily a " versal panacea.

While we are busily getting our b ready for a severe winter-we always a severe winter here-you, on the contai I suppose, are getting ready for a cf of honey: quite a contrast.

With fraternal greetings from one on

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Major Shallard's Reply.

Major Shallard, N.S.W., Australia, reles as follows:----- No. 1. Absolute moral is as follows:------ No. 1. Absolute moral of the sites and is scrupulously obght, which was and is scrupulously oberred by all old beemen. At the same ine the sites must be fully stocked. 2. We beeman has any right to trespass upon other, and should not go closer than are miles.''

Mr. C. P. Dadant's Reply.

Mr. C. P. Dadant (American Bee Joural) replies:—"Question No. 1. I believe we has. 2. Not short of three miles, unless the apiary is small and does not cover the shad. 3. Not the least objection."

The discussion, in its early stages, dealt rith the moral right of the owner of land a start keeping bees, despite the fact that mapiary existed within a mile and a half. The President, who upheld the landowner's moral right, referred to the Edendale district, where, originally, the land was sour. The farmers limed the land, with the result that it grew clover the like of which was not grown elsewhere in the Dominion. In Holland he was told that imilar country could carry 1,000 hives to the square mile.

Mr. Ireland said that he could not understand why the President held divergent views from those expressed by the principal beekeepers of the world.

Mr. L. Irwin said that though his Branch was in favour of Mr. Baines' proposals, he himself had a great deal of sympathy with Mr. Nelson; but the Nelson party had been unfortunate in its advocates. He thought that legislation might be passed to prevent ''dumping.''

Mr. Sage was of opinion that the owner of an established apiary had no right to object to a newcomer starting an apiary in the same district.

Mr. Ward, quoting an opinion expressed by Mr. Byer in a letter on the subject, thought that the application of the Golden Rule would solve the problem. He did not think that legislation would do much good

Mr. Bray, to test the feeling of the Conference, moved: "That Conference proceed to the next business." He thought that the matter under discussion was impossible of solution by legislation.

Mr. P. Martin seconded the motion, which was agreed to.

The President then submitted the following remit from the Executive on the subject of apiary boundaries:---

"We as an Executive agree that the solution of this difficulty as put forward by Mr. F. C. Baines in the National Beekeepers' Association Journal for December, 1919, is the best yet given, and we suggest that the National Association in Conference assembled should pass resolutions to have these clauses embodied in the Apiaries Act:--

- "Clause 1.—The owner of ten hives or more can become a licensed commercial apiarist within the meaning of the Act if he so desires, on payment of 2/6 per annum.
- "Clause 2.—No person shall be allowed to start or establish an apiary on any land other than his own residential property, either leasehold or freehold, without the consent of the Apiaries Division of the Department of Agriculture."

He explained that these clauses were only rough drafts; if agreed to, they would be properly drafted to give effect to the principles they embodied.

Mr. Baines said that, as they knew, he had been against legislation all along. Considering every phase of the question, it seemed impossible to solve it that way. He recognised, however, that it was "jolly hard luck" for a man who had established an apiary to have another start in his vicinity. He read an article on the subject under discussion from the December (1919) issue of the Journal.

Mr. Ireland said he had no objection to Clause 1. Under Clause 2 he would be prevented from keeping bees, as he did not reside on his apiary site.

It was explained that the clause would not be retrospective in its operation.

Mr. Bray moved: "That Conference proceed to the next business." He said that there was plenty of room for everybody in the country, and there were many untapped sources of honey.

Mr. Irwin seconded the motion.

Mr. E. Simpson moved: "That the Apiaries Act be amended by including Clauses 1 and 2 as above."

Mr. Ireland seconded.

Mr. Bray's motion was negatived on a show of hands.

Mr. Simpson's motion was agreed to.

The President said that Mr. Campbell informed him that if the Department approved of the clauses when they were submitted, they would be drafted so as to give effect to the intentions of Conference.

By acclamation a vote of thanks was accorded the Committee which had served on the question of apiary boundaries.

A vote of sympathy was accorded Mr Nelson in respect to the destruction of his apiary.

Mr. Ireland briefly acknowledged the vote of thanks to the Committee.

PREVALENCE OF FOUL-BROOD.

Mr. R. W. Brickell brought up the question of the control of foul-brood and the proper administration of the Act, and stated that a self-appointed Conmittee had gone into the matter, and would submit a resolution on the subject. With permission he called upon delegates from different parts of the Dominion to give their experiences regarding foul-brood.

Mr. L. Irwin said that foul-brood was still to be found in every corner of Southland; he did not know a commercial beekeeper who did not have foul-brood close to him.

Mr Watt (Mataura) said the disease was in his district to a good extent.

Mr. J. Murdoch said that the southern part of Westland was pretty free; the northern part was still bad in parts.

Mr. A. H. Davies (Hamilton) said that he had been a local inspector. Foul-brood was to be found all round the Waikato.

Mr. Simpson (South Canterbury) said that he was also a local inspector. When he first went to the district the disease was rampant in every hive in the district; it was still very bad.

Mr. Johnston (Rangiora) said that he had the disease in his district.

Mr. Bray said that some parts of Banks Peninsula were clean; other parts required cleaning up.

Mr. A. R. Bates (Kaponga) said that his district was getting cleaned up to a great extent. The disease was not nearly so bad as it had been.

Mr. Shepherd (Hastings) said that foulbrood was very, very bad, and had always been bad. He emphasised the necessity for the inspector's first visit being followed up.

Mr. Martin (Nelson) said that foul-brow was in existence in the Motueka district

Mr. Goodman (Otago) said that s years ago when Mr. Earp went that s the district, it was almost impossible find a clean colony; there was compatively none now.

Mr. Ireland (Ellesmere) said that during the past five years his apiary had been entirely free from the disease; the san applied to his neighbours.

At a later stage in the proceedings, it Brickell moved, Mr. Clark seconded, in it was unanimously agreed—

"At a largely attended Conference beekeepers of the Dominion, ren sentative men stated in no uncert terms that, of their own knowle and personal experience, the Apia Act as at present administered not accomplished the primary of for which it was placed upon Statute Book. It is certain ; foul-brood-the scourge which , the beekeeping industry thous of pounds in an attempt to com it-is rapidly on the increase. in a large measure to understaf of the Department which has to a minister the Act. The annual 1 in capital and production due to ravages of the disease runs many thousands of pounds. Conference submits that in view the necessity for increased prod tion, the loss mentioned is national one, and all reasona means must be taken immediate to stop the loss. We submit-n more, we demand as a right-t all the provisions of the ApiariesA shall be immediately put in for that a Chief Apiaries Instructor appointed, whose duties shall be see that the Act is carried out. T a sufficient number of field office shall be appointed to assist him carrying out his duties; that the duties of these field officers shall the elimination of disease in district to which they are appoint That a copy of the foregoing sta ment and resolution be placed deputation, consisting of the Predent, Secretary, and others, beb the Hon. the Prime Minister, that a copy with a covering left be sent to every member of Parl ment.

"2. Should the Government be unable grant the requests herein contained the National Executive and the

Board of Directors of the H.P.A. are hereby appointed a Committee to take such steps as may be necessary to have the Apiaries Division of the Horticultural Department created a separate division under its own Director. ''

GRADING REGULATIONS

Mr. C. F. Ryland brought up the report s the Committee to which matters relating grading were referred. He stated that the matter was discussed in conference with Mr. Campbell and the three Government honey graders, and it was realised by all that some alterations or additions were required to the system of grading to enable to become a little more elastic to meet he continually changing conditions by world-wide commerce. Other than that nothing very drastic was necessary. They ame to the conclusion that the grading of honey and inspection for foul-brood were equally necessary, and equally essenial for the development of the honey inastry of the Dominion. It was important hat grading should be done promptly, and that inspection for foul-brood should be done all the while. It was recommended that "water-white" should be added to the grading classes, and the Department be asked to adjust the regulations accordingly; that with regard to coping with foul-brood, further inspectors should be provided by the Department for inspection purposes; that graders' duties be adjusted to enable all honey received to be graded promptly after receipt at grading stores.

Mr. Campbell said that the Committee had a very useful discussion, covering much that the recommendations did not fully cover. The sum total of the whole business was that the beekeepers, the National ing that others were enjoying this boon by Association, and the Department should get together on every occasion, with the view of removing any anemalies that might exist a few hives three seasons ago. That hap-In connection with the work being carried on, and of placing matters on a satisfactory basis in the interests of the industry. The Department was quite willing, so long as the industry was safeguarded, to meet any proposal so long as it did not lower the standards built up in the past .-(Applause.)

On the motion of the President, seconded by Mr. Jacobsen, the report was adopted and a vote of thanks was accorded the ommittee.

USE OF EXCLUDERS.

Mr. Baines opened a discussion regarding technical work in the apiary by reading a paper on

"QUEEN EXCLUDERS: AN ASSET OR A NUISANCE."

Those of you who took the Journal in December, 1916, will remember an article by Mr. R. Gibb, of Menzies Ferry, on how he secured eleven tons of honey from 100 colonies. In that article he made the following statement:-- "Now, I know I shall rub somebody's hair up the wrong way when I state that I have never yet found a blocked brood-nest where queen excluders are used; and as I run the whole season with three or four swarms, and some seasons none at all, the man who says they encourage swarming does not know what he is talking about."

As Mr. Lenz, with whom I first gained experience in beekeeping, and who at that time was the largest and most successful beekeeper in the country, could not work his bees successfully with them, and my one and only attempt with their use was a miserable failure, I felt this statement was rather a sweeping one, and wrote the Journal on my experiences.

Mr. Gibb replied fully, giving his method of working, and after summing up said :---"No, the trouble is that you northern men's education in the use of excluders has been sadly neglected.

At the time that was written, I thought we could very well neglect the tuition; but at this time I am inclined to think there was a great deal of truth in it.

Although I did not make a successful use of queen excluders, I always felt, when taking off honey, how very much nicer it would be if the supers contained combs of honey only, instead of having brood scattered about them, often into the second and sometimes the third super; and knowthe use of excluders, I set about educating myself to their use by putting them on pened to be a very peculiar season, as there was very little honey about, but the condition of the hives with the excluders on indicated that it was easily possible to use them to advantage provided one was careful to judge when the hive was ready for the division by the excluder. Last year I again used them successfully on about twenty-five hives, but the epidemic coming along just at the busiest time in the apiary, I was not able to give the necessary attention, and the results were not so good as they would otherwise have been.

During the season just ended, I used excluders on every hive, and although it was not a good season, as we did not have the

equivalent to 12 hours' rain in four months, I am convinced the queen excluder is a very valuable asset. It would perhaps be of interest to give a rough outline of my work last year.

My first inspection was during the first week in August, when I found the bees had wintered well. Colonies showing poor queens were marked and re-queened, and by assisting the weaker from the stronger, by the middle of October they were all in an average good condition, with a fair flow of honey coming in.

On 24th October I clipped the queens' wings, and worked the hives on the Demaree plan by placing three frames of brood and queen in the brood-chamber, filling up with empty combs, placing on excluder, then super of empty combs, and on top of these the combs taken from the brood chamber. I do not think it advisable to place the queen below with only one frame of brood. I have found in some cases the bees have neglected the old queen and put all their energies in the uppersuper raising queen cells.

From this manipulation till I had extracted in February I did not once again look into the brood chamber; neither did I have one swarm the whole season.

Now, the chief advantage in using excluders is when you come to extracting time, and can thus use escape-boards, with a surety that your supers will be cleared of bees. I am inclined to think that this advantage alone is worth taking whatever risk there is in using excluders. I have 24 escape-boards, and to put these on overnight entails about three-quarters of an hour's work. The convenience next morning of just removing the cover and placing the super of honey on your barrow is very great indeed; apart from the saving of time, there are the great advantages of the bees all out of the way, and no smoke necessary, thereby eliminating the chance of tainted cappings; the absence of the possibility of killing or at least injuring the queen; and the very great comfort of having practically no bees in the extracting room.

I reckon it used to take me at least five minutes at every hive under the old system, and one was busy with the smoke and brush the whole time; and even so a great number of bees were still on the combs, a certain number were erushed or daubed with homey, and each frame had to be treated separately, entailing a great deal of labour and lifting. Now, a lift Mr. Baines.

with the hive tool and the job is done. use the screen wire escape-board, ma out of the screens used for transport live bee-hives.

When the extracting was over, I made an examination of the broodeh bers, and found in every case that inst of the combs being blocked with he there was evidence that practically whole of the combs had been in use brood-rearing only, and there was far little honey in them to winter the unless we had an autumn flow. Owing suppose, to the dryness of the season, was practically no honey at all this and it was necessary to retain all the combs of honey contained in the supers for feeding. Therefore, I am ho to say that my experience this year accordance with the statements made those who have championed the use excluders-that the use of them does mean honey-blocked brood-chambers

There are many experienced beekeeps who do not look kindly on the general a of this much-discussed appliance, but so they will admit the great utility of the for raising queen-cells, as the best posiresults are obtained when a set of gat are placed above a strong colony.

You will judge from my remarks that do not pose as an experienced user of it appliance, but have read this paper in to open the discussion. There are Mess Rentoul, Ward, and others who have be using this appliance for years, and I ho my few comments will prompt them to go us all the benefit of their experience.

My opinion to-day is that queen a cluders are a great asset to the beekeeper

An interesting discussion followed, majority of the speakers testifying to usefulness of excluders, Mr. Rentoul, instance, saying: "If I could not use cluders, I would give up the business a gether." Messrs. Ward, Clayton, Jac sen, and others spoke to similar effect

Mr. Sage said that he had used the cluder, but eventually found that he col do much better without it. When a keeper got into business in a big way, excluder was just one thing more handle, and the sooner he got rid of it better.

Mr. Bray said that he managed q^o well without it.

A hearty vote of thanks was accord Mr. Baines

RONEY-PRODUCTION INDUSTRY. Mr. J. Rentoul read the following paper:

HE HONEY PRODUCTION INDUSTRY. wish shortly to make a few remarks the honey production industry, prinally to compare the treatment meted to it by the Government as compared the way other industries are treated. Every year representatives of the Govmment and heads of the Department visit Conference, and quote figures showing progress of the industry, and pass commentary remarks generally on the subt: but that the industry progresses is tirely due to those engaged therein. Not y is the industry not nursed and pamred as some of the other producing inun stries are, but in some respects it is enalised. The figures that I will quote resently will show you that it is the by form of production that is not asisted by concessions, but is, on the other and, as I have said, hampered by exssive charges, not to mention neglect; nd why this should be so is difficult to en nderstand. The industry of heney producm ion performs a dual benefit, and should really rank as of considerable importance. ts It produces a valuable food product that is otherwise going to waste-a product that can and should to a considerable legree replace sugar, which must be imorted. And in this connection it would nly be reasonable to expect that the overnment would assist in popularising he use of honey. It is the ideal sweet for children, and its use in confectionery, or instance, in the place of such stuff as glucose would be a decided benefit to the health of the rising generation.

Besides producing a valuable food probet, the industry is directly beneficial in mproving the pastures of the country. The frillisation of clover is an important matter in general farming, both improving be pastures and at the same time benefitug the soil. So much is this the case hat the more intelligent among the farters not only welcome the establishment apiaries in their neighbourhood, but in me cases will assist the bekeeper by aying part of the cost.

I think it will be admitted that the adustry has exceptional claims for, at east, fair treatment, if not for some of hose concessions which have been exended to other industries in the early lages of their existence, and, indeed, are will extended to them.

Let me first take the matter of railway for purely a normal rate—the s rates applying to honey and material used butter—the matter is ignored.

in beekeeping, and compare them with the rates charged to other produce and material. I will take the rate for comparative purposes for 100 miles, and will leave out the 10% and 10%. Honey is charged 26/6 as against butter 14/6, fruit 11/9, grain 9/8. Honey takes much less space than butter, and brings a much less price per pound. A case of fruit can be sent anywhere on the rail for 8d. Cases in shooks for fruit-growers, free; for honey producers, £1 12s. 1d. Bees are charged at the highest rate-viz., Class A, 49/4. This is an important matter, as it practically bars a beekeeper when the season is a failure in his own locality of taking advantage of a good season in another locality-a thing that could be frequently done in New Zealand.

These rates are obviously unfair to us, and although representations have been made time and again, both to the Manager of Railways and to the Minister, nothing has been done to rectify the matter. Compare this with the treatment received by the dairying people. For example, milk or cream is carried at 1½d, per gallon per 100 miles. This is a bulky product in heavy cans, the weight of which is not included in the charge. It is carried in the vans of passenger trains. I noticed a paragraph in the Lyttelton Times the other day, so I brought it with me. It reads:—

9 "Mr. G. W. Forbes, member for Hurunui, has received the following letter from the Minister of Railways: 'With further reference to your letter of the 17th ultimo regarding the question of farmers being required to do the loading of their cans of cream, I have the honour to inform you that cream is carried over the railways at very low rates, one of the conditions being that the loading and unloading shall be done by the owners. The rates charged are quite unremunerative, and if the loading were undertaken by the Department it would be necessary to increase the rates, as in many cases additional assistance on the trains would have to be provided. might mention, however, that statistics bearing on the subject are at present being prepared with a view of providing some means of meeting the requirements of the dairy farmers in the direction indicated as far as is found practicable.','

You will notice that an effort is to be made to meet the dairy farmers' requirements in this matter. There appears to be still room for further liberal treatment here, but when the honey producer asks for purely a normal rate—the same rate as butter—the matter is ignored.

There are a few more concessions that the other farming industries receive. Farmers get lime delivered free for 100 miles; grass-seed returned free from the cleaning mills. If a fire sweeps the country, he gets grass-seed supplied free. If an apiarist is mopped up at the same time, he can make shift as best he can. When feed is scarce in bad seasons, he gets his fodder carried free; the beekeeper has to stand the racket himself, pay good money for his bee feed, and the full railway rate. The fruit-grower has a guarantee of 1d. per pound on all fruit exported. I think I am right in saying that if the honey industry had been nursed in this manner, it would not have been the least among the industries.

Now, with regard to other matters, we have an Apiaries Act and grading regulations, and I believe the Department carry them out as well as the money at their disposal allows. At any rate, the beggarly salaries paid to graders would indicate an effort to make the money go as far as possible. But the position to-day, as far as the control of disease is concerned, if improved at all, is mainly due to commercial apiarists spending money that would be used for the development of their business in buying up disease-infected hives in their neighbourhood to get rid of them.

As for grading, the staff at the command of the Department is so small that the delays occurring tend to make the regulations 'a hindrance rather than a benefit. During the war the Government exercised itself in making arrangements with the Imperial Government that were highly to the advantage of other producers. But, like Cinderella, the honey industry was left out as usual, although the fact, that the Imperial Government, on the representations of the agents of the Honey Producers' Association, put honey on the first priority list just before the armistice was signed, showed that something might have been done in the matter, and that the Imperial Government recognised the value of honey among the foods required by them. If the Government had taken the matter up when they dealt with dairy and other produce, the claims of honey would have been recognised earlier. Our absolute failure to get shipping in 1918 might thus have been obviated, and some £50,000 saved to the producers and the Dominion. While other producers, through this trying period, were reaping a rich harvest owing to the care of the Govern- mined effort to get rates reduced. ment, nothing stood between the honey had waited on Sir William Herries, producer and disaster but the organisation to be put down with fair speeches built up by their own efforts. I consider nothing in them. They proposed that that the National Association has been too South Island honey should be carried 1

modest in its claims for a square deal fact that the honey producing indust ignored by the Government and parlia generally can only be due to a wall knowledge of its condition and its bilities. I would here suggest the E_{Xee} draw up a comprehensive memoran which should be sent to every memoran Parliament dealing fully with the ditions under which we work, statistics showing its possibilities pointing out what should be done t the best out of the industry.

I will make a few suggestions. matter of railway rates should be into. not only with regard to hone rates on bees, cases, tins and supplies matter of eliminating foul-brood. ance in obtaining better grading Assistance to beekeepers in obta apiary sites. At the request of this ciation, the Lands Department for a set apart sections for apiary sites in cut up by them for settlement. But quite failed to realise what was requ in this respect, neither did they res these sections for the sole right of keepers, but allowed anyone to ob them. The idea in setting these see apart was more for future than prerequirements. New land is not an suitable for beekeeping, but may beca later on, and the idea was to hold t sections in reserve, or let them tempor till required. It is often difficult to apiary sites in suitable localities, and sides setting apart these sections alre mentioned, the Government should asked to assist apiarists by buying sect and leasing them, or else assist the keeper to buy, as they assist other mers.

These are some of the matters should be put before members of Par ment, and I am sure their fair-minded when they know the facts will enlist the support.

The President said that they had about as much compressed wisdom in Rentoul's paper as in any paper before Conference. Railway rates honey were fixed when honey was being produced in large quantities, the rate was made high on that account Things had now changed, and there no reason why honey should be on a ferent basis from butter, milk, or produce. They should make a very del

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imaru, and that would double the railfinard, and it would be killing if they to pay present rates.

After discussion, it was decided, on Mitter of Mr. Baines, seconded by Mr. wobsen: "That the President, Vice-Preacousen, and Secretary of the National Beewepers' Association, and the manager and chairman of the Honey Producers' Asmation be a permanent Committee to atter the political interests of the in-

The President: The Committee's first miness will be to try and get railway etes on honey reduced.

A vote of thanks was accorded Mr. Ren-

VARIOUS MATTERS.

The President read a letter from Mr. 7 W. Kirk, Director of the Horticultural and Apiaries Division, expressing regret at his inability to be present.

A letter was read from Mr. I. Hopkins aggesting a competition in respect of comb and capping machines.

The President said that he had been asked, in connection with the railage of honey and the proposal to send all South Island honey to Timaru, to mention that Southland members desired to know the attitude of Conference regarding freights. At a previous Conference, reference had been made to the possibility of pooling freights.

THE ASSOCIATION'S USEFULNESS.

Mr. C. F. Ryland gave a lengthy and interesting address on "How the Usefulness of the National Association can be Increased.'' He said that the geographical location of the Executive of the Association prevented frequent meetings being held, and from his point of view one of the most desirable things was that meetigs of the Executive should be held as 3. Higher salaries for apiary instructors. ften as possible. The location of the cretary hindered prompt action in urgent atters, and prevented, to a large extent, ^o-operation with the H.P.A.; but Mr. aines was without doubt the best possible an for the position of secretary.-(Apause.) Apart from that, the position f secretary of the Association should be entralised. He mentioned, in connection with Major Norton's visit to the Dominion, that an endeavour was made to ostpone the sitting of Conference for a ortnight, but owing to the delay in getting eplies from members, no action in that direction had been possible. What was the solution of these friendly criticisms?

The first desirable thing in connection with the Association was the formation and adoption of a definite written platform on progressive lines. "I do not suggest that you should join the Labour Party," Mr. Ryland said jocularly, "and publish a platform in John Norton's 'Truth' or the 'Maoriland Worker.''' The adoption of a definite written programme would mean that each member of the Executive and each member of the Association would know exactly what the programme of the Association was, and what the Association was striving to do. Mr. Ryland quoted from the February (1920) issue of "Gleanings'' to show what beekeepers in the United States are doing in the way of organising nationally with a definite platform. The advantage of a definite plat-form, he said, was that the whole force and knowledge of the Association could be directed more effectively than if action was taken haphazardly. If the secretary were given certain definite executive powers, it would mean a tremendous saving of time and expense; the secretary knew the mind of the Executive, and was prepared to take reasonable action when necessary, knowing that he would have the support of the Executive. Failing the location of the secretary in a central locality, a small Executive of three, under the main Executive, was suggested. Mr. Ryland suggested the following as the Association's permanent policy:-

1. Increase in the consumption of honey in the Dominion.

An advertising campaign, similar to that undertaken by the H.P.A., was suggested. It was estimated that in 1919 about £5,000 was spent in shipping charges in connection with the export of honey. This would be saved if a local demand were created.

- The appointment of a Chief Apiarist. Mr. Ryland said that Conference had already discussed this.
- This was a matter Mr. Ryland said, of great importance to the industry. Unless salaries were increased they would not be able to keep men of experience at the present maximum of £295 per annum. It was at present difficult to get men to put tins of honey in a case and nail the cases down at that money; many unskilled men were receiving more; it was ridiculous to think that the matter should be allowed to stand as at present; the Association must move in the matter. He quoted, for comparison, salaries paid by the Government for experts, as follows :- Hemp grader,

£345 per annum; dairy grader, £400; grain grader, £350; inspector of stock, £350. Honey graders did work of equal importance.

5. Assistance to honey producers.

6. Loans from the Government.

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- There should be an Act in connection with the honey producing industry similar to the Fruit Preserving Act of 1913, under which the Government should advance reasonable sums wherewith to build depots for the blending of honey, and for the advancement of the industry generally.
- 7. Increase of membership of the H.P.A. An endeavour should be made to get every beekeeper in the Dominion to become a member and supporter of the Association. By participating in the co-operative movement, all beekeepers would obtain better prices.
- Eradication of foul-brood. Necessity for a greater number of Government inspectors.

Local inspectors had proved unsatisfactory. There were in the Dominion about 9,000 people who kept bees and bred foul-brood "for fun" and for a little honey-if they could get it. The time had arrived when the problem of foul-brood should be looked at mathematically. It was not a fair deal that the commercial honey producer should be robbed of his honey by the existence of a single hive in his district "owned by a man who is not seriously producing honey." To meet the expense of additional Government inspectors, the Conference should request the Government to impose a tax of £1 per annum "upon every person keeping bees in the Dominion ''-(applause)-the money raised by this tax to be utilised in the payment of inspectors to eradicate foul-brood, any surplus to be devoted for organising and developing the honey producing business. It might seem very terrible to some people to be called upon to pay £1 per annum for the privilege of keeping bees, but they wanted every beekeeper in the Dominion not to be content to have a single hive and breed disease, but to go in for the business seriously and properly. The tax would eliminate the disease, and turn "hobbyists" into serious beekeepers. A similar tax was imposed on nurserymen and orchardists.

Concluding, Mr. Ryland said he put these suggestions forward with some diffidence: they were his own opinions, gained from of view.

a pretty close study of and a good of thought about the industry. good a

The President said that they had listen to a long and interesting address; they had to look for practical results Ryland's point as to the difficulty the sociation was under in doing anything well taken. It was possible that the culty might be overcome to some en by enlarging the powers of the Stan Committee. He moved: "That the 8 ing Committee, which consists of the sident, Vice-President, and Secretary the time being of the National keepers' Association, and the Chain and Manager of the H.P.A., take un deal with all matters connected with industry."

Mr. C. A. Pope seconded the moti which was agreed to.

On the motion of Mr. W. Watson, s onded by Mr. T. A. Clarke, it was un mously decided:—"That this Conferenrequests the Government to place and nual tax of £1 on each person keeping in in the Dominion, such tax to be a in the payment of additional inspecfor the prevention of foul-brood and departmental and instructional pupe and appointments."

On the motion of Mr. A. R. Bates as onded by Mr. W. B. Bray, it-was agree "That the salary of an apiary instruor honey grader be raised to at least to of a dairy produce grader." It was deed that a copy of this resolution should forwarded to the Public Service Commissioners.

FIRE BLIGHT EMBARGO.

Mr. T. A. Clarke brought up the subof the rumoured intention of the Govement to gazette regulations prohibibees and queens being removed from Auckland provincial district owing to fear that they would carry fire blight other districts. He moved: "That Conference demands that before regulation are gazetted prohibiting the removal bees and queens from the Auckland of trict, the whole of the reasons for so action be placed before the Committee set up by Conference."

Mr. W. Watson seconded.

In the discussion which ensued, seven speakers questioned whether it had be proved that bees conveyed fire blight.

Mr. W. E. Barker advised caution, a pointed out that fire blight was a serious thing from the fruit-grower's point of view.

Mr. Campbell said that it was proposed act on a rumour. He could not confirm istene that rumour; it was a matter for Cabinet for the Executive Council; he was not now a position to say whether the rumour was correct.

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1g Was After further discussion the motion was e diff oreed to, and Messrs. Clarke, Sage, Baines extent d Ryland were appointed a Committee to unding approach the Government in the matter. Stand.

e Pre Conference adjourned, and in the even. 'Y for g a supper and social gathering was held Beethe Cadena Tea Rooms, the function irman being attended by over 90 delegates. o and h the

THIRD DAY-FRIDAY, 11th JUNE. Otion

The Conference resumed at 10 a.m.

CONSTITUTION AMENDED.

On the motion of Mr. Ward, seconded ence by Mr. Jacobsen, the amendment of Clause an.)) of the Association's Constitution, agreed bees to at the previous year's Conference, was used confirmed. Clause 10 reads :---tors for

"Prior to the Annual Meeting at which)Ses they are to be elected, every Branch Association shall nominate a representative to serve on the Executive. This ed: shall consist of not less than seven to members.' hat

10 As amended, the word "more" is substituted for the word "less" in the final sentence, thus providing that the Executive shall consist of not more than seven members

DUTY ON IMPORTED TIMBER.

Mr. Bray introduced the question of the removal of the duty on imported timber, pointing out that the Dominion's supplies of timber are decreasing. He stated that the Farmers' Union were strongly advocating the removal of the duty on imported timber. He moved: "That the Government be asked to remove the duty on imported timber; and that the Standing Comnittee be asked to see this matter through , '

Mr. Ward seconded, and a discussion en-sued, the necessity for providing timber for hives being emphasised.

The motion was agreed to unanimously.

DUTY ON BEESWAX.

ago a motion regarding the duty on bees response to requests from members of Conwax was thrown out by Conference under ference, promised to forward a description a misapprehension. There was a duty of to the Journal.

1d. per lb. on beeswax, but there was no duty on comb foundation. This seemed in opposition to the policy of the Government to encourage New Zealand manufactures. He moved: "That the Government be asked when next revising the Tariff to put beeswax on the free list."

Mr. Ireland seconded.

In the discussion which ensued, reference was made to adulterated beeswax.

The motion was agreed to.

HONEY PUMP.

Mr. W. R. Brickell read part of a letter from Mr. J. H. Todd, of Renwicktown, describing a new honey pump, the difficulties experienced in connection with the ordinary style of pump being got over by a curved pump.

Several members showed much interest in the communication.

NEXT CONFERENCE.

On the motion of Mr. Sage, seconded by Mr. Ellis, it was decided: "That it be a recommendation to the incoming Executive that the next Conference be held in Auckland or in Hamilton at the Executive's discretion.'

TAX ON APIARIES.

On the motion of Mr. Bray, seconded by Mr. Ellis, it was decided: "That it be a recommendation to the Executive to canvass the Branches to get a signed petition from the members of all Branches in support of the proposed tax on apiaries.

EXTENSION OF THE ASSOCIATION'S ACTIVITIES.

The President said that Mr. Ryland's paper on increasing the usefulness of the Association had evidently made an impression on members of Conference. Mr. McLean had asked that Conference should express its opinion on the following:-"That Mr. Ryland be asked to submit in concrete form to the Executive the reforms contained in his speech, and that they be forwarded to the various District Associations for confirmation, "-" Should that be a recommendation to the Executive?" the President asked.

Conference responded "Ave."

TREATMENT OF FOUL-BROOD.

Mr. Clayton gave a demonstration of his Mr. Brav said that three or four years method of dealing with foul-brood, and, in

OFFICERS ELECTED.

The election of officers resulted as follows:-President, Mr. W. Watson; Vice-President, Mr. E. W. Sage; Executive-Messrs. A. H. Davies (Hamilton), A. R. Bates (Kaponga), L. Irwin (Woodlands, Southland), and R. McKnight (Domett); Secretary, Mr. Fred C. Baines.

Mr. Allan, retiring President, expressed his thanks for the manner in which he had been assisted during his term of office, and for the confidence placed in him.

Messrs. Sage and Baines referred eulogistically to the work done by Mr. Allan.

Eulogistic references were made by Messrs. Allan, Sage, and others to the work done by Mr. Baines as secretary and as Editor of the Journal. "He is such an ' said Mr. Allan, "that we cannot asset.' afford to let him go.'

Voices: "We can't do without him."-(Applause.)

Mr. Jacobsen: "He won't get a chance to get out of it!"

On the motion of Mr. Sage, it was decided that the new Executive should take into consideration the question of increasing the Association's recompense to Mr. Baines, and make his salary commensurate with the work done.

Mr. Baines fittingly acknowledged the remarks made by the speakers.

A hearty vote of thanks was accorded by acclamation to the retiring President, members of Conference rising and singing "For He's a Jolly Good Fellow."

On Mr. Allan's motion a vote of thanks was accorded the ladies who had at tended the Conference.

Mr. Allan then declared the Conference closed.

HONEY COMPETITION.

The Honey Competition attracted 20 entries, the winners being :----

LIQUID HONEY .--- A. R. Dickie (Rotherham), 1st and 2nd; J. Irving (Albury), 3rd.

GRANULATED HONEY .--- L. J. Heney (Peel Forest), 1st; C. J. Clayton (Peel Forest), 2nd; W. E. Barker (Peel Intion respecting the imposition Forest), 3rd.

DEPUTATION TO MEMBERS OF PAR LIAMENT.

On the afternoon of Friday, 11th Ju the members of the Association's Stand Committee and some members of Con ence met Messrs. L. M. Isitt, M.P., P Howard, M.P., and D. G. Sullivan, Mp

The more important resolutions arrive at by Conference were placed before members of Parliament.

Mr. J. Rentoul, Chairman of the Stan ing Committee, said that beekeepers e plained that there had been serious negh of their business: they had not had a and square deal from the Government compared with other industries. He d with the question of railway rates on lines of the paper he delivered before f. ference; also with the necessity for better administration of the Apiaries

Mr. C. F. Ryland quoted the following comparative railway rates in respect of t same quantity of the products mentione

			Honey.		Butter.		Fruit.		
50	miles	21	£1	1	1	£0	12	3	£0 8 2
100	miles		1	12	1	0	17	6	0 11 9
200	miles		2	4	2	1	5	1	0 16 9
300	miles		2	14	3	1	12	8	1 110

Replying to Mr. Sullivan, M.P., M Rentoul said that the railway authoritie when approached, had given no reasons f the disparity of these rates; practically the satisfaction got by the Associa was the statement that the Railway partment might increase the rates on of produce rather than reduce the rates honey

Mr. Ryland dealt with the necessity increasing the salaries of apiary inspect and honey graders. Instead of a ma mum of £290 per annum, they should paid as well as dairy produce graders, got £400 per annum.

Mr. Baines dealt with the question the appointment of a Chief Apiarist, with the need for more inspectors in of

to cope with foul-brood. There had 92 delegates present at the Confer and all had testified to the fact that f brood was rampant in their districts.

Mr. Watson: The position cannot questioned. of ben A main

Mr. Isitt said that members of Parl ment knew what the position was respect of foul-brood.

Mr. Ryland read the Conference, annual tax of £1 on all keepers of bee

Mr. Sullivan, M.P.: Have you had an able to consider the compromise sugexpression of opinion from your Branches on this proposal?

Mr. Ryland: No; but the question has been discussed for years, and almost every representative beekeeper would be as manimous as Conference was. The meaere was not a revolutionary one; it had been tried in Canada and various other countries, and had been found the means of keeping down foul-brood. Reference was made to the self-imposed taxes paid by nurserymen and orchardists.

Mr. Ryland said that the proposed tax in addition to providing salaries for additional inspectors, would probably be sufficient to provide funds for the development of the export honey industry. The export regulations preventing the removal of bees of honey could be increased 500 per cent. "Those are big figures," he added, "but they are quite right." The Dominion can produce 500 times its present output of honey, and the industry is well worth helping.

Mr. Isitt, M.P., thought that the bee keepers would be up against the opposition of the beekeepers who kept one hive, voiced by their representatives in Parliament, to the imposition of a tax of the same amount all round. He quite realised that it was the one-hive men who breed foul-brood.

In the course of a more or less conversational discussion, it was suggested that the commercial beekeepers should pay £1 per annum, and other beekeepers 10/ per annum, any person selling honey, no matter how small the quantity, to be classed as a commercial beekceper.

Ultimately the representatives of the Association said that they would be agree- them.

gested; they were quite prepared to have the tax removed once foul-brood was eliminated; there was no desire to squeeze out the small man-they wanted men to become better beekeepers.

Mr. Isitt, M.P., said that if a tax of 5/per annum were imposed on non-commercial beekeepers, it might be possible to get the Government to subsidise the amount raised. He suggested that in the circular the Association intended forwarding to all members of Parliament, the figures relating to railway rates should be quoted.

The question of the rumoured issue of and queens from the Auckland district owing to the danger that they would carry fire blight, was brought up, and Mr. Isitt, M.P., urged that the Association should communicate by telegram with the Government on the subject right away.

At the conclusion of the interview, Mr. Isitt, M.P., said that his fellow-members and himself recognised the value of the honey industry, and of the work the Association was doing; they recognised it was a growing industry of great commercial value, which would find employment for many returned soldiers who were not able to take up more strenuous work. They were prepared, and he believed that the majority of members of Parliament were prepared, to do everything possible and reasonable to help the honey industry.

Mr. E. W. Sage conveyed the thanks of the deputation to the members for the courtesy with which they had received

