Conference of Dominion Beekeepers

A National Beekeepers' Association Formed.

The Future of the Industry in New Zealand.

Building up an Export Trade-The Way Paved for Important Developments.

<text><text> The third annual conference held under the auspices of the National Federated Bee

Mr. Rhodes also promised bis assistance in securing the legislation necessary to meet the wishes of the Association. (Applause). The president thanked the Minister on behalf of the Association, and added that the theoretic the Association and added that the beckeepers were of some happin-dairying industry had grown to its present dimensions from a very small beginning, and in the case of the beekeepers they were now in their infancy. However, the last few years had shown material progress, and he thought the output of homey of lare, he thought the output of homey on a present of the beekeepers were plause. COMPULSORY GRADING.

COMPULSORY GRADING.

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some 18 months, and had now concluded printingements with the Christehurch firm of the supervision of the Cheltschurch firm of the honey of the State of the world under the honey and stamp the cases with the supervision of the Federation. They had to thank the Government, through Mr W, Kirk, for having arranged to grade the honey and stamp the cases with the supervision of the Federation. They had to thank the Government, through Mr W, Kirk, for having arranged to grade the honey and stamp the cases with the supervision of the Federation of the head to the impossible by any other means. The executive believed that the confidence of huyers would be galaed thereby, and lishing a demand for New Zealand honey. Head the supervision is to hand, the execu-tive also expressed appreciation of the disease. From accounts to hand, the execu-nergy and tact of these officers had been energy and tact of these officers had been doned a dependent by all they had. The halance-sheet showed the sum of fact from stream balance-sheet were the sum of the state of the supervision beyond they diational remark that they could see that the case and had balance here by the diational remark that they could see that the federation's finances, for money diation to the ord balance of fact offi-diations's remark that they could see that the the dot balance here officers officers were the Federation's finances, for morey the federation's finances, for morey the federation's finances, for morey the for the two the which, but if the are well occue. The result of the supervision the draft of the manufer oparticition was need and referred

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DEALING WITH UNEXTRACT-ABLE HONEY.

(By I. HOPKINS.)

(By 1. HOPKINS.) It may be well to explain to the unin-titated that "unextractable" honey means honey that is too dense to remove from the combs by the ordinary honey extractor with-out injury to the former. The bulk of New Zeahand honey raised in commercial aplaties south of Aucland is chiefly gathered from the south of Aucland is of the source. There is no difficulty in romating more or less of some admitture from other sources. There is no difficulty in the source of t

Although, as I have stated, the bulk of the honey raised south of Anekland can be read-lly extracted, there are districts where occa-sionally there is much trouble and loss through more or less dense honey being gathered. The Waikato districts may be quoted as an example. Since the modern system of bee culture was first adopted there in 1880. I have known of unextractable system of bee culture was first adopted there in 1880. I have known of unextractable boney being gathered; more in some seasons than in others, but it is very rare that a senson passes without being froubled of one district wherein the extremet adopted of one district wherein the extremet blossons and also from the Polutitkawa flowers ex-tracts freely, and these I understand are the main sources of nectar on the Great Bar-rier.

FROM WHAT SOURCE IS THE DENSE

FROM WHAT SOURCE IS THE DENSE HONEY OBTAINED? It seems very strange indeed that after thirty pears' experience with the evil we should still be ignorant of the source of the dense homey. Several beckepers have their theory as to the plants from which it is gathered, each differing more or less, but no ne is quite certain on the point. Did we but know we might take steps to eradicate he plant or plants if it were possible, or by watching it coming into and going out of flower try to connteract the evil in some way; but while ignorant of the source we are parcelatily helpless. Manuka, flax, cabbage tree and pennyroyal

Mannka, fax, cabbage tree and pennyroyal tre some of the sources put forward. The three first plants certainly blossom about the the the dense honey is gathered, early in the season, but there are localities in the walkato where most of the native plants mentioned have been cleared away, and yet he evil still exists in some seasons. The correct and only method for finding the source or sources is to collect the pollen grains from the chief plants in blossom at the time the dense honey is being gathered and compare them under a powerful micro-scope with those found in the honey-this would settle the question at once. I have no doubt in my own mind that at least one kind of mannka (tea-tree) and flax are two sources, but I feel sure there are

least one kind of manuka (teat-tree) and flux are two sources, but I feel sure there are others: it may be weeds of some kind. When Chief Government Aplarist, I, to-gether with my assistants, commenced to collect and preserve pollen grains from all the chief honey-yielding flora. The scheme was, to make a complete collection and then have them inferophotographed on a failty but against and reproduced in a builtin so that scale and reproduced in a builtin so then a change took phase, and nothing in this line has been done since I consider it this the has been done since I consider it most important that such a scheme should be undertaken as soon as possible. One would have thought that the Waikato Bee-keepers' Association would have undertaken some such steps before this.

DEALING WITH DENSE HONEY. DEALING WITH DENSE HONEY. Is the first phase, I would say to the prospective commercial beskeeper, make all impulties, before setting on any district for the establishment of a bee farm, as to the bee flort about, and avoid any locality where much dense honey is gathered, and don't ge north of Auckland. There are three methods of dealing with distribution of the set of the set of the provide the set of the set of the set of the there are three methods of dealing with distribution of the set of the set of the mathematical and on the breas. The the set of the s

The third method of sloring the comos meanwhile is the best, or at least we have found it so at the Government Aplars, The dense honey is brought in early in the season, and how long it will last depends emirry apon the weather. If, when clover however, come in, the weather is bright, and the temperature favourante for the secretion The third method of storing the combs

of nectar in the clover, the gathering of dense honey ceases. If, on the other hand, the weather proves unfavourable for clover, we get a longer spell of dense honey.

we get a longer spell of dense honey. When the supers are getting fairly full of the dense stuff and scaled over (we allow this kind to be fully scaled before re-moving it) we remove the combs to the comb-room and substitute either empty combs or frames of foundation. So long as the dense honcy is being stored we follow this plan, and directly extractable honcy begins to come in we empty the whole we have to be end of the senson, leaving nothing extractable in the hive when the end of the to the child of the season, leaving nothing extractable in the hive when the end of the season comes. Now, we simply furnish the hive with frames of the stored unextractable article for food. In conclusion, I can only hope that the

In conclusion, I can only hope that the foregoing may be of some assistance to those who are troubled with dense honey, and I would suggest to the National Association the advisability of endeavouring to get the bepartment of Agriculture to carry out the scheme I started, wiz, the collection and grains from the various honey plants grow-ing in different parts of the Dominion, so that we may have the means of determining that we may have the means of determining the source of any given sample of honey. Epsom, Auckland, N.Z.

THE RIPENING OF HONEY OUTSIDE OF THE HIVE.

(By A. IRELAND, Christehurch.) (b) A. HELIAND, CHILAND, CHILAND, CHILAND, CHILAND, CHILAND, The subject that 1 have to speak upon, although it may not sound so, is the most important of all the things that affect our industry, or, indeed, any industry, riz., the putting upon the market of the product in the best condition possible.

The permanent prosperity of any industry must depend upon the producers exercising all their ingenuity and knowledge in pro-ducing an article that satisfies all that the consumers expect, and more.

consumers expect, and more. You must all have observed that comb honey has a certain flavour or aroma which extracted does not possess, or at least not in the same degree. The question is, Why is this so? It must be caused through Why is this so? It must be caused through some fault (If 1 may so call if) or process in extracting. This aroma is very volatile, and subject to pass off by evaporation. So that the longer honey is left exposed to the in-fluence of the atmosphere before being scaled in its permanent containers, more of the aroma or perhaps all of it may be lost; and so the resultant honey is not in as good 1 may still be what may be called egood honey, but it is not as good as it could have been. been.

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contact with the air, and so it is able to retain much more of the volatile aroma than would be possible with a shallow tank with

would be possible with a shallow tank with a large evaporating surface. It is possible under certain circumstances to produce a good sample of houey that hus been extracted before being fully ripered in the hive. But it requires the greatest of care and knowledge how to proceed, and in the hands of anyone but an expert is almost sure to fail more often than succeed also is care and knowledge how to proceed, and in the hands of anyone but an expert is almost sure to fail more often than succeed; also, in some districts it is almost impossible to succeed. Honey has a great affinity for the surface of the duce a good sample; but it is never so good as it would have been had it been extracted when fully ripe and exposed as little to the air as possible. Now that we are trying to develop a foreign market, it behaves us to many to produce a good as more possible many to produce as good as subply possible and by the outer surface of the surface of the surface of the produce of the surface of the adopt the very best methods in the produce then of honey I am quite certain that to advocate the practice of ripening honey atter-ated such a method, without giving warming of such as the off surface of succease the surface of the surface of such a method, without giving warming the surface of the surface of succease the su

I propose that this conference considers that any artificial methods of ripening honer are detrimental to the best interests of her-We detrimental to the best interests of her-keepers in general, and requests that th-Department of Agriculture revise Bulleth No. 18 on the lines of "The Care of Ex tracted Honey," by Dr. E. F. Phillips Ph.D.

Ph.D. Mr. Ireland went on to make the following anotation from a name by Dr. E. F. Phillips on the autority of this the policy of most bediesenorfic:--- 'It is the policy of most bediesenorfic the the autority of the preference of the second second entirely canned, and this is undoubtedly the preferable method. It is a matter of common observation that honey which re-mains in the hive for a long time has a better 'body,' and has more of the charac-teristic honey arona. By rineming in the tree some sets its characteristic flavour rending of honey cannot he The theromy recommond. Honey cannot hency, in which the water content is very hich. In which the water content is very hich. In which the water content is very hich. In which the mole becomes sour. In theroughly ripened honey it is very prob-ble that a fine of thinner honey is always present, but in such a case the snar connot rew, "Mr. Honkins: La your paper written from the bossing and hence in the sould".

Mr Hopkins: Is your paper written from a theoretical point of view or as the result of practical experience?

Mr Ireland: It is from the knowledge which I have gained from practical experience.

Mr Allan agreed with Mr Ireland that to Mr Allan acreed with Mr Ireland unat un-less area of honey they exposed to the atmosphere in New Zealand the better. He did not want to say anything about those cases where artificial warmth was given; but moved. That we an Association, dis-courage the use of any system of the artificial ripening and too early extracting of honey."

Michail ripering and too early extractions of hones?. Mr Cottrell seconded the motion, and seald that unless they produced an article which would keep and could be relied uport they had better go out of the bayes they had better go out of the bayes was extra was of opinion that honey hat was extra was of opinion that honey hat was extra was of opinion that honey hat was extra was of opinion that honey and they had better go out of the bayes ready against the cultivation of a taste for honey. The humid climate of the North Island would not successfully their hole honey by exposure to the atmosfile for machine go, by exposure to the atmosfile machine go, by exposure to the atmosfile machine the with the set of earlier of the "Rulleth," Wild was now being prepared, the statements on this sub-leng hole honey is and being prepared, the statements on this sub-

Mr Gibb said that while in Dunedin at Mr Glub said that while in Dunedin at the Duiversity, he obtained a specimen of asses, Analysis shower, fresh from the asses, Analysis showed it to have a speci-ne gravity of 1.435 and 16 per cent of free water. Three months later he hought a specimen of the same honey from a shop, and on analysis its specific gravity was found to hardysis the specific gravity was found to have water in it had risen taken it per cent to 20 per cent, showing that it had absorbed water from the air in the meantime.

It had absorbed water from the air in the meantime. Mr. Hopkins in defending the artificial repeating process, said they had to take or the present process. Said they had to take or the set of the

by side and note the results. Mr. Moreland advocated the natural ripen-lag of honey inside the hive. Mr. Ireland said that he could see that beekeepers were almost unanimous in favour of ripening honey inside the hive, and he was glad to see it. It was the best way, and one ran no risks. The motion was then put to the meeting,

and carried

THE RIPENING AND MARKET-ING OF HONEY.

(By D. LEA.)

(Ey D. LEA.) Mr. President, Chairman, Ladies and Gontiemen.—When Mr. Brickell did me the ence a paper on the Ripening and Marketing of Honey I refused. My reasons for refus-ing were twofold. In the first place, I felt hat I was lacking in the experience neces-sary, and in the second place that as I ower in the second place that as I were in the second place that the history of one man's since the clust for another mail's success; and if anything I can as phelps others I groupe in the dark, then this paper, will have accomplished all that I ever bot. To many beckarmers in New . Compared a durit is small, and the number in the success of the small.

Compared to many beefarmers in New Compared to many beefarmers in New Zealand, my output is small, and the number of my colonies few. Circumstances pltch-forked me into the business five years ago, and I was at that time absolutely ignorant of all things connected with it. The induce-ments I had to take up beefarming were that I was not afraid of bees and that to surgence who could use tools the business that I was not afraid of hees and that to anyone who could use tools the business was full of opportunities for putting in one's own work. And hefore going further I should like to put on reform the never-failing help and courtess I have received from Mr. Hopkins and others to whom I have applied in their official capacity for information.

Information. I will first deal with the ripening of honey, since to market honey which is un-ripe is folly of the worst kind. Everywhere one goes the old complaint is heard of honey blowing out the tops and of time or running out of glass jars by reason of fermentation, and it was early borne in upone that to be able to say with component that to be able to say with would be a selling point of great value. It was not long be fore I found that Mr. Hopkins had in his Bulletin No 18 given to us the information I required. Here was a method of testing

one's honey and of obtaining a figure to say whether it was fit for market or no. Use for comparison the hydrometer and its honey. I have using the specific gravity of for five sensons, and the hydrometer now to be desired, it is still the leaves much guide to ripeness that it know its reliable guide to ripeness that it know its reliable guide to sensors, and the hydrometer now to be desired, it is still the leaves much guide to ripeness that it know its reliable guide to a sensor of the sensor of the guide to ripeness that its move the sensor hy experience goes to show that although the guide the sensor of the sensor of the guide to a sensor of the sensor of the guide to a sensor of the sensor of the sensor hy experience goes to show that although the desire and the sensor of the sensor tevery housing by the statement that for his own distributes of those samples of the specific gravities of those samples and noting the behaviour of each with the lapse of time. I know of nothing that varies so widely in quality, flavour and texture as honey, and that variation takes place not only in areas closely situated to one another, but also month by month in any situated locality. To illustrate what I mean, it is leaved by a shigh as Mr. Hopking' standards, it caused me some unexistes at standards, it does not have not have any honey of the same specific gravity as which as the honey of the same specific gravity as high as Mr. Hopking' first that I could not do so, since I have seen honey of the same specific gravity as my own, but from another locality. ferment in six months. Still time has proved to me that there were no grounds for uneashness on my part, and further that the axiom that Mr. Hopkins lays down that "the higher the specific gravity the better," also needs ex-plaining and qualifying. Although that raxiom is probably quilt true when consider-ing the keeping quality of a honey, yet it can be wholly untrue from the point of view of honey of high specific gravity finding favour with the consumer Y ou all know home difficult it is in cold weather to scoop honey out of this and glass jars, and it may actions with the consumer 1 on all know how difficult it is in cold weather to secon-boney out of tins and glass jars, and it may sound ridiculous to you to suggest that if honey can be seconed out easily as a paste which will spread like butter, it will sell more readily and at a higher price; yei such I find to be the case. And here would point out that I speak from the band, where the sale of honey in brichettes wrap-ped in paper is unsatisfactory, except for a short period in midwinter and where thoney all over seems to be of a less specific gravity than the South Island honey.

shoney all over seems to be of a less specific gravity than the South Island honey. As a rule a moist honey, that is, a honey in a paste form, is looked upon with use picton, but by mis of the hydrometer each beefarmer can, thet in that condition. It is only a quick term in that condition. It is only a quick term in that condition. It is honey on the ton of observation and experi-ment to determine that specific gravity which that will keep for eighteen montha-honey is a straight of the hydrometer each hone will come to the crux of the hydrometric and now I come to the crux of the hydrometric and now I come to the crux of the hydrometric hold now I come to the crux of the hydro-metric transfer of the hydrometric gravity? My answer is that can, and it is by making use of their media and to be wrether the honey of any required specific gravity and hone of the state and the hydro-meter, that honey of any required specific of the specific gravity of honey was the iterated of a specific gravity has nearly the state of the state of the specific practical practical the hydrometer has a specific gravity here have any the state of any required specific of the specific gravity of honey was the iterated honey of any required specific practical practical to test one's honey, and to realise that it was not much use from a hydrometer has a specific gravity har ex-tination of the specific gravity har any art. It have an anxious to be proved at ex-tination of the specific gravity har any strate of a specific gravity har any honey without any trouble, since it as to pre-hydrometer is, har a specific gravity har any hone case of a hydrometer to have a time esclinate observer to were good, but which, on text y the hydrometer is, har hone widel mode have state it stoppin hone widel mode have state it stoppin hone widel mode have state it stoppin hone the hydrometer is have a honey which is any here side of the word hone widel mode have state it stoppin hone the hydrometer is have a state honey which is any before grite to ho

I believe that we beefarmers on the West Coast of the North Island suffer more of fermenting. 3

severely for cardiesness in the units of ripening honey than do bedfirmers in other and drie tocalities. I have noticed many times that extracted honey if left exposed to the atmosphere rapidly. The source of the severe state of the severe to the severe state of the severe tilly of water in honey that determines how long it will keep without fermenting. Think, by this might be so, and being fully alive the severe state of the severe state of the trying to get information, and the severe trying to get information and the severe the severe the severe severe the severe the severe the severe the severe severe the severe the outside the hive. Except from Mr. the outside the hive. Except from Mr. the outside the hive. Except from Mr. the outside the hive. The severe severe the severe the severe the severe severe the severe

at once. During the following winter I came to the conclusion that the fault must be mine. Frobably the heating plant was not suff-cleatly powerfal; probably the honey granu-lated before the surplus moisture could be waporated out, and in some way in which the summon order and the same start in the the summon order and the same start is and arranged so that I could keep it richt and and as of the the order and a larger and as of the specific gravity in creasing, in some cases it decreased, al-thoration the twee sources in the same and and the though was maintained at a tem-perature of between 8004cg. and 8004cg. F. and and light for a fortuight or more.

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however, 1t did the opposite sometimes. And now again this year when I thought to the some conditions, and the result user was and the same. The honey would not of the same. The honey would not of the same. The honey would not for a stall, and I was giad to sail independent for cooking purposes a month ago with a guarantee to the effect that it this year I have anoticed that smears acethed, and I am completely at a loss in the same room do not at least of how the heney towards and the same. The fact remains they do not.

do not at least show a tendency the do doing the same. The fact remains they do not. In spite of the fact that the original pur-pose for which 1 put in a rather expensive heating platt it is a good thing to have. I am also convinced that to let honey that is already ripe lie in a tank exposed to a warm, dry atmosphere improves its flavour. Ar. Hoykins has called this "maturing." angive no proof of what a substrain and observation born of the set whomey has re-tard the set of the set of the set of the honey cannot be bottled or timed off at the time, it call a indicates the set of the s

net by taking it thus early. To those of you who handle your honey by tens of tons and your colonies by hun-dreds, these points may not appeal. I am speaking from the point of view of a man who goes for the very finest honey for table use, high prices, fewer colonies and close individual attention to each, so that his once each indicate the semant as the second second second second second second Before locative the second second

Birding attention to each, so that his cooles erturn to him nearly as much as the coole erturn to him nearly as much as the coole of the start of

ing out the surplus moisture by the hive that, but by the bees going over and over directive process best understood your selves, absorbing the surplus bound into their lower stomach and return-ing the thicker sweet monthuous one until the cell's or possibly at intervals in the first forcess is to be capped, and then I may the cell form a cit is added because the surplus at intervals in the first the cell form a cit is added not the surplus and the surplus of the first the cell is added to be a supported by the surplus of the first the cell is added to be a supported by the surplus of the surplus peculiarly see far as the surplus of the surpl

exposure of the nectar to a warm, or atmosphere. The more obvious conclusion is perhaps to be arrived at not by fanciful theories, but hy the fact that I have in all probability merer got hold of the right fail of (1). I think that is quite length I have been asked to arrive by starting with that remark, so I may like thill towards the end. The bees, as I have to do, the next pro-ortic boy when, and where and at what price to market it. Knowing what good honey sells for retail

price to market if. Knowing what good honey sells for retail on the Home market, and knowing that the Home honey is the standard by which the world's honeys are judged. I have not the least hesitation in saying that practically the whole of New Zealand honey if pro-perly ripned might be sold wholesale in New Zealand at nearly double the present prices. Also it might be retailed at half as much again as the present retail prices. So far as I an concenned there is no argu-ment about this. I have been doing it for five years against local competition of a failty formidable kind, and I have sold wholesale and retail. wholesale and retail.

wholesale and retail. When sugar was invented honey became a luxnry, and luxurles have got to be paid for by higher prices than everyday com-modities fetch. The sort of thing that I see going on in my district is this: The bee-farmer collects a lot of old benzine tins, holding about 56tb, and sells to the grocer at 34d to 4d a pound. The grocer lets the honey candy solid, cuts away the tin, and hacks off sticky pounds of honey to his cus-tiomers at 8d a pound, and so makes 100 per cent profit or more. It reminds one of the old way of selling buttre before the neat 1lb pats came into vogue. Now that honey might just as easily be sold in New the till pairs came into vograe. Now that boney might just as easily be sold in New Zealand for 1/ a lb retail and the bee-farmer might just as easily get 8d a lb instead of 4d, still leaving the grocer a 50 per cent profit, which would, were he making it on all his lines, enable him to retire in about five years. I have seen Jamalca honey, which brings 3d a lb in bulk, on the Home market, and it is a wretched, flavourless honey, bottled by a firm with a big reputation and exported under their label to New Zealand, where it fetches 1/8 per 11b bottle. The name on the label does the trick, and these figures are facts. We are simply being bled by the middle-man at present, and we are ourselves to

man at present, and we are ourselves to blame, for we have but to say that we will not sell at the present prices they offer to get the prices we name.

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and labour cost much more than in the Old Country, and the cost of living higher all round, we sell our honey at times as low as 34i a lo wholesale, and the grocer retails as 34i a lo sublesale, and the grocer retails at 7d to 8d. It is ridiculous. On the Home market we will be bled in just the same way, and our honey will, I belleve, make but 4d a 1/. The only answer that I know to that is time the merchant, and com-bine to sell to the grocer direct through our own representative at Home. and labour cost much more than in the Old

The to sell to the grocer direct through our own representative at Home. It is, however, no use thinking of doing that his home will keep for at least a yai home yai high prices user for at least a home yai high prices user least a yai home yai high prices user least of his home' the more for all homey that howe's at how the yai home yai will rate''. If he dares to say to the grocer in New Zealand, "You must sell my honey i will note' the more for all homey that had get his own connection together and give delivery himself and retail, guaranter how gatisfaction to his customers - I sath he cares to. dares to, and a making more money with halt throw find outhay and half the work in the him pleasantly employed is the work in the him pleasantly employed is here no do it quite easily even against com-voing working on the lines of so many summer, and such how prices that all those is much homey is of doubtral keeping cality.

quality. Let a solution of the second honey personally. If the stand I advocate against the middleman were taken, and if the Home market be used for the purpose purpose der that the Home market be used for the purpose of disposing of our surplus in order that the local markets may not at any time be thooded, then I think in a very short time the importance of our local market would increase by leaps and bounds, and local prices would everywhere be enhanced. An certain amount of useful attentions, and will. I hope, before by the source of a mode will, in hope, be one of a must principally rely on his own efforts, seeking encouragement from the fact that a paternal association is at the back of us, and is the encouragement from the fact that a paternal association is at the back of us, and is the pood, solid foundation upon which each of us may build our business securely. I have now to some extent tried to answer the "where" and "at what price" of this ques-tion of marketing honey. The question of "in what form" and "at what time of year" to market honey is hest left. I think, to the individual Local conditions vary year" to market honey is hest left. I think, to the individual. Local conditions vary too widely to speak with certainty, or to say that one way is better them another. It denends entirely upon local requirements, and it is the local market, I think, that demands attention far more than the Home market. The latter should, I think, he used at present only in so far as it will belp exploit the former.

exploit the former. In conclusion, I can imagine no better thing for bac-forming in New Zealand than that bac-formers should resolve to have the number of their colonies and double the price of their honey by doing their own retailing wherever they can. Then when the prices have advanced, as they must under such treatment, I think many of us yould wonder why we never thought of doing it before. New Zealand honey is the only honey in the world that can stand comparison with the finest of Home honey. In favour of New Zealand honey.

Higher prices mean a chance to run fewer colonies. Fewer colonies mean closer indi-vidual attention and less discer. Finan-cially it means half the capital outlay for

cially it means haif the capital outlay for the same return. It is often the last few words that a man speaks that are remembered longest, and this fact "that the whole of the good honey in New Zealand is being sold at about half its real value by the bee-farmer" are the words that I hope will hannt every one here for a very long time indeed.

Mr Lea was loudly applauded as he re-sumed his seat after reading his paper. Mr Gibb congratulated Mr Lea on the ex-cellence of his paper, and said that he be-liered it possible to ripen honey outside the hive, though he did not advocate it at all. Inve, through the dur not advocate it at all. Referring to the carelessness of aplarists in marketing their goods. Mr Gibb said he had seen exceellent housey put up in petrol tims in Danedia, and he proposed that the Health Department should be asked to prohibit the use of petrol tins and cases for

hibit the use of peters this and cases for honey. A Volce: No, no, no. Mr Baines had endeavoured to get into direct touch with the retailers, but found it better to deal in a large way with a mer-chant rather than take orders for a case or "the bare and there from retailers,

two here and there from retailers. Mr Hutchinson also had tried selling direct to the retailers, with unsatisfactory results. Now they had an agent in the city selling where they did business, and the honey was the property of Hutchinson Bres, until it was sold. They sold from month to month

the property of Hutenhason is es, until it was sold. They sold from mouth to month it prices stipulated, allowing 5 per cent as well as the 22 per over the estimated of the start of the s

Mr Gibb said they were all aware of the art Gibb said they were an aware of the time that farmers put up butter in all sorts of contrivances. He had taken it home in a cabbage-leaf. And what was the price? A member: Little more than the cabbage leaf.

Mr Ward mentioned at this stage that the Pure Foods Act in force this year stopped the use of second-hand containers. (Applause.)

The President said the Association had in the rresuent shift the association and in view a scheme by which all their honey would be attractively got up in neat pack-ages, and handled in much the same way as they handled butter.

THE PROGRESS OF THE INDUSTRY.

An address was given by Mr T W. Kirk, F.L.S., on "The Progress of the Industry and the Efficiency of the present Aplaries Act." Dealing with the early history of the industry, Mr Kirk said bees were sup-posed to have been introduced into New Zenland in 1830. In 1840 another lot was brought out by Lady Hobson. In 1842 Mr Dosed to larve been involved the job was Zealand in 1839. In 1840 another jot was brought out by Lady Hobson. In 1842 Mr 1840 infroduced some into Nelson, and in 1880 the first Italian bees were said to have been introduced. Many people were bee-keepers, but they kept bees. In for beekeeping; he didn't say they were bee-keepers, but they kept bees. In forougnout hrough the second as the second as seqiously to interfere will the your in-district. In 1905 the Department of Agri-culture began to step into the bee industry. It realised that if beckeeping was to be-come a considerable industry in New Zea-land it Was necessary to have legislation to control this disease. In 1907 the present

Aplaries Act was passed, and the first officer to administer this Act was Mr. I. Hopkins. The Department was very lucky to zet him. The 1907 Act was not the first attempt to place legislation to the first attempt to the Statute Book. Activation and the States States Hopkins and others dirthed a bill, but it never got on to the State Book. When the 2007 Act was passed disease ho do noney were afraid to put it into the industry. Exactly the same position obtained in the fruit industry. But now their and so far improved that aplarists had conduct in an evidence of the growth of the industry, the 1906 census showed that there were improved that aplarists had confidence in birreasing their stocks and their output. As the tionce of the growth of the industry, the confidence of the growth of the industry, the confidence of the growth of the industry, the confidence of the growth of the industry, the growth of the growth of the industry, the growth of the growth of the industry amounted to industry was 1,003,3401b, was amounted to industry be an unberted 11,002, was f22,223. According to the census of 1911 the keepers according to the census of 1913 the keepers was 1,457,2721b and was 000th with a showed 11,200 beekeepers, with for 1913 colonies. A conservity e estimate of the value of the sessoris output was 245,000. (Applause) Mr. Kirk went on to draw the they han of the association to the material the present membras of the association isomething should be done to alter this. The steady enforcement of due Act, the

Sometring should be done to alter this. The steady enforcement of the Act, the destruction of the diseased colonies, and the great reduction of the disease-breeding box-hive had resulted in the steady increase of the industry. The increase would have been very much greater last year had it not been that many colonies were lost during winter and soring. and spring.

Touching on the question of adulterated honey, Mr. Kirk said that samples had been analysed, and in one case it was found that the specimen contained 37 per cent of came sugar. At the same time there was no power for the Agricultural Department to take action, and the Health Department to take action, and the Health Department to a similar position. He drew the attention of the Health Department to the matter, and regulations have since been issued under the Fune Food and Drugs Act by which such and regulations have since been issued under the Fure Food and Drugs Act by which such cases as this could be dealt with. He thought that this would effectually prevent final markets in future. So far as experi-land markets in future. So far as experi-had done a great dealt of farmers and fruit-ing connection with the order of the set of forwards, and connection the work was being ex-growers, and connection with the sort was being extended to the apiarist.

The held it absolutely necessary to get an export trade established, and instanced the adjustment of the state of the state of the response of the state of the state of the markets. If they put honey in these petrol with the state of the s

Brickell moved that a committee, Mr. Brickell moved that a committee, consisting of Messrs. Rentoul, Pearson, Gilling, and Gilbb, should consider the Apiarles Act and report as to any amend-ments which might be thought necessary. This was agreed to.

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HOW SHOULD WE PUT NEW ZEALAND HONEY ON THE HOME MARKET?

(By W. HOOPER TEED.)

BY H. HOUCH TEED.) This sectorident that before an article can be put up for sale its worth mast the ap-standed or graded. This is usually one by carries, especially if a large quantity is been approximately on the sectorization of the beam of the sale at one time. We have been approximately if a large quantity is very starts, especially if a large quantity is well upon the aspects shall more directly low. Zealand one must not be lost sight of. To have two markets open to us, the matance, however, the sale of the sale of the low design of the sale of the sale of the low design of the sale of the sale of the approximation of the sale of the sale of the approximation of the sale that the sale of the sale of the sale of the sale that the sale of the sale that the sale of the sale that the sale of the sale of the sale of the sale that the sale of It is self-evident that before an article can

and on arrival, after if has been reliquented and bottied, will, no doubt, on regranulation, take on much the same characteristics as boney of a similar class which is produced in the place to which it is sent. In this paper we more especially refer to clover honey grown in New Zealand, which, in its liquid form, very much resembles that stoom in binaud; it to arranulate, and sections may sometimes be kept eighteen months before granulation can be detected; it is therefore granulation can be detected; it is therefore much coarser in grain. The consequence is most people prefer liquid to granulated honey, and no doubt a very large proportion is soid and eaten before it has had time to granulate.

is soid and eaten before it has had time to aranulate. The English taste in honey may be very easily gauged by visiting any county show, and for one sample of granulated honey row will see about ten of ilguid, and probably parenthesis, we may here say that these county shows are run under the guidance of the British Beekeepers' Association, with which the county associations are atiliated, so that none but British honey is shown there. There are, however, three shows to which New Zealand could be seat; these take place in London towards the end of september, during three consecutive weeks, which New Zeeland could be sent; these take piece in Loudon towards the end of Sent are called respectively the Dairymen's, Grovers'. We see that the Hikh Commis-grovers'. We see that the Hikh Commis-produce at the first-named one last year, and we think the should be approached to have honey included in his exhibit this year, and there is no reason why New Zealand duere included in his exhibit this year, have honey included in his exhibit this year, and there is no reason why New Zealand there is no reason why New Yeal the difference is the there is the end of the the there is the there is the the difference is the second who way laye goods on exhibition. It may be inferred from the foregoing that we are against grading in New Zealand be-

fore shipment; on the contrary, we think it would be beneficial and would prevent un-sound honey being sent away; it would also be an indication as to how it should be classified on arrival. It will, but is anyone to you value commercially will, but is anyone to say what is anyone to the indication of the say what is anyone in the indication of the say what is anyone in the indication of the say what is anyone in the indication of the give an instance that has come under our own notice: Two honeys in their liquid form were shown at the Walkato Central Show at Cambridge in March, 1912. One was far and away the better of the two, both in colour and consistency, and was awarded the first prize. If the other had been graded according to English methods it would have been classed as medium. There are three necoding: to English methods it would have been classed as medium. There are three classes—light, medium and dark. Heather honey has one to itself. The same two honeys were again shown at the Walkato Winter Show at Hamilton is July as grain-lated honey, but the one was third on the 'ist as granulated honey, the other coming in first, but it again took the first prize as liquid honey. We would point out that colour and consistency take a high place in the estimation of the British public, and if grants is to be a seen and the second with the Commissioner should appoint a man for this purpose; his salary or commission need not, Zealand. We would suggest that the High Commissioner should appoint a man for this purpose; his salary or commission need not, naysers' pocket, for the expertors include charged so much per cent on their sales, and the High Commissioner would thus reim-burse himself for the outlay. This could be easily done, seeing that it is now agreed that all New Zealand hence put on the English market should be concentrated in the hands of one firm, who would fix the price, and not leave this to the merchants, appresenting the experies, would fix the le in close touch with the brokers and could advise and consult with them as to the price be in close touch with the brokers and could advise and consult with them as to the price to be put on the product. The reason for nutting the grader under the control of the appointed by the New Zealand Beekcepers, they would have no hold on him, and he would probably become a law unto himself. As already pointed out, our clover honey

As arready pointed out, our clover money in its liquid state very much resembles that of England; it should be our endeavour to provide that it should also resemble it in the form in which it is offered to the British public, for, as it has often been remarked, they are very conservative in their tastes. For this purpose it should be put up in For this purpose it should be put up in II band 4lb jars, the former being the more usually asked for. If sold to the large pro-duce merchants they will no doubt adopt this plan and reap the advantage by passing off as English. This would not matter so much if the English honey seasons were consistent and we knew what quantity was likely to be applied for, our shipments being fairly regular; but after a good English honey harvest it is reasonable to predict that the demands on our product would conlikely to be applied for, our snipments neug-fairly regular; but after a good English honey harvest it is reasonable to predict that the demands on our product would cou-siderably decrease. If, however, our jars however, our jars the course of time, would know and appre-ciate our honey, and as the price would be somewhat lower they would naturally ask for ours instead of the English article. The question now arises, Are we able to get these labels put on our jars? If some ar-rangement could be come to between our be reliquefied and whereby the honey could on the market, it would, in the first place, be much more easily graded than if a sample were taken from every 56b th and liquefied sparately. The grader could then hand over to the bottlers the number of labels and it would have to find its way to considered sufficiently worth year would have point out far all the South Australian-ing a table honey, no labels should be issued, and it would have to find its way to the configurations at a lower price. We would have point out that all the South Australian-ing a stable neury to English the south are point out that all the South Australian-tion and bottlers way to English the south out that all the South Australian-tion and bottlers way to be devery they engrease the during the south and bottlers and by the south and bottlers way to be possed it. Whether it is all the south and by the posses of it. Whether it is bottled by them and by trokers in a difference in the south and by the posses of it. Whether is a bottler by them and by trokers in a difference in the south and by the posses of it. Whether is to bottler by them and the south and the south and the south and by the posses of it. Whether is to bottled by them

selves or handed over to a firm of bottlers for this purpose makes no material differ-ence, as, for instance, it is well known that Base' ale and Guinness' stont are not bottled by the firms who produce them. We would also like to draw your attention that the South Ameteolane have found out the it is by the must show produce them in the the South Ansteilans have found out that it is more advantageous to send their honey to Fristoi instantians have found out that it is more advantageous to send their honey to forty miles north-west of London, for which he obtained 20 to 30 per cent more in Bristoi and Liverpool than he could get in London, although he had to send it five times the dis-tince. Mr. Lysnar, the organiser for the time, the Lysnar, the organiser for the time, asys: "All inquiries go to show that there is a better and more reliable market in the western cities than there is in Lon-don. There are too many associations which don There are too many associations which doll, There are too many associations which exist in London and assist the Londoner, but are detrimental to the producer; but these organisations do not exist to the same extent in the west."

but are detrimentation to the producer, some these organisations do not exist to the same extent in the west." There is also another reason why honey is a structure of the same extent in the west." There is also another reason why honey is a structure of the structure of the struc-ent by the editor of the "British Bee Jour-nal," who about five or six years ago in answer to the question, Why should honey that has granulated be liquefied before being judged? answered: "Honey is composed of two substances, dextrose and levulose, and sent in substances, dextrose and levulose, and sent in some quickly than the levulose, and in so doing is separated from it, and in order that the real flavour be obtained the honey should be well mixed after being sphere. This separation is very con-after a slow granulation has party this out figs, and the liquid part should be dramed off. To exemplify this action the contribution of the separated from the other. This is still more conspicuous in some cases out figs, and the liquid part should be dramed off. To exemplify this action in cold countries what takes place in cold countries what takes place fails low enough to partially freeze a bound of heer; the alcoho is separated from the other part of the liquor and, of course, can-tot be force. The reaninger whom liquid uo one has a name for.

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bathing in the river lasted from the thing week in April to the middle of October,

week in April to the induce of October, "" The farming of whiter forage in Germany is also different to what it is in England pose (the mangel-warrel orightmethy in the mark, the name signifying the large of necessity), whereas in England grave of pose the necoscipue of the issue of the consequence is that before the hay is gathered, especially if the spring hay one. The consequence is that before the hay is gathered, especially if the spring hay which does not a source of the spring the original states of the spring hay which of the requiring machine, the hour how is practically and it only began about the middle of ally, and it only began about the middle of ally, and it only began about the middle of ally, and it only began about the middle of ally, and it only began about the middle of ally and it only began about the middle of ally and it only began about the middle of all and the carried out, it will be been experiment. The carried out, it will be been been conclusively shown that if it praded on arrival in England as well, this prade on the experiment on the england prade and the as the too the england as well, this prade on the england on this pro-toker well in Same be The farming of winter forage in Germany is also different to what it is in England

be debarred from export. In conclusion, we would emphasize this, also that it should be concentrated into the hands of one firm, who will further the power to fix the price, and that it should be sent in regular shipments to a West of England port in preference to London. If this is done there is no doubt there is a great future before us, for it must be said the production of New Zealand honey, at the present time, is only in its early in-funcy.

The President sold that the export tride which they were developing was with the West Coast of Busiand. The honey went to Liverpool and the Glascow, where they had found that evel as New Zealand probably sell as well as New Zealand heather honey. It was of similar davour as the Scotch heather honey. The associ-tion's view was not to exclude any honey, except the very poorest, but a right class of honey was to go to the port and district best suited to it. He believed that they was a great future for the dark honey of New Zealand. Mr. Brickell, as an illustration of whit

best suited to it. He believed that use-was a great future for the dark howey of New Zealand. Mr. Brickell, as an illustration of what the following letter from Mr. E. B. Sadde son, of Lower Hutt.—'On arrival here the encomed and and the shape of the solution who then put it up into jurs (class or per-celut, sometimes In the shape of skept-the relatives in such small quantifies at the following the start of the shape of skept-the relatives in such small quantifies at the following the start of the shape of the probability of the start of the shape of the probability of the start of the shape of the probability of the start of the shape of the probability of the start of the shape of the probability of the start of the shape of the probability of the dealers could be used they would be. I am, however, south and they would be. I am, however, south and the strangel for a livelihood is very deal and if any of the dealers could be used to me the best plan is to keep semiants of an attrick is established. More the shapments are only treated as 10 attrict of the strangel to a livelihood is very the start of the start out the provinces. The start of the start o

Mr J. B. Adams was of opinion that their was a large market for New Zealand dark honey.

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Mr Cottrell said that by sending their shipments to one firm and letting that firm ax the price, they would soon be getting English prices. At present the competition was amongst the sellers to get rid of the heney. Let it be sent to one firm, and then the competition would be amongst the supers to get the honey. Mr. Hutchinson said that so far as he could see there was only one way to get satisfactory prices on English markets, and that was to get a careful grading and a

satisfactory prices on English markets, and that was to get a careful grading and a bottling depot at home where their honey would be put up in glass jars. The saying The saving would be put up in gauss jurs. The saving on not having to import the jars into New Zealand would more than pay the expense of bottling. He did not think that selling in bulk through brokers would ever be sucin built through prockers would ever be sin-cessful. So far as dark honey was con-cerned, he thought that if some of their test dark honey were sent to Scotland and labelled "New Zealand Heather Honey" it would pay well. If some of the far-famed heather honey of Scotland were sent out here it who a concer use size.

here it would not realise 34d. In reply to a query as to what constituted a first-grade English honey, Mr. Bowman said they gave a fairly wide range so as not to discourage any honey. So far as the English market was concerned a dead white honey would not bring the best place for a very pale honey A creany colour would be best or the Home market White and be best pale honey A creamy colour would be for the Hone market. White clover the recognised standard and a nice, t buttery grain with a good, full, mel flavour and aroma was to be almed "What has really made heather honey much talked about is the egotistical Se drambter. mellow be aimed at (Laughter.)

On the motion of Mr. Brickell a committee of three was appointed to frame reso lutions on the question of export.

SECOND DAY.

SECOND DAY. Mr. G. Ward, of Porirua, gave a demon-stration and explanation of an improved feeder, and went on to read a short paper on the question of honey export. In the first place, he considered the first and most necessary step was for the producers to combine and be of one mind as far as the export of their honey goes. It was the petty competition that tended to destroy the prices. Secondly, they should arrange for the honey intended for export to be de-posited at a given centre, where it could be the prices. Secondly, they should arrange for the honey intended for export to be de-posited at a given centre, where it could be graded and certified by the Government experts. Honey for export should be pack-ed only in new tins, and those of a particu-lar pattern. A certificate of grade and quality should be affixed to each tin by the Government grader. Mr. Ward thought that still best weight for each tin to contain was bell best weight for each tin to the honey missioner should be asked to be the to new Zealand honey, disposing of the whole lot at prices which the association could stipulate. It would soon be recognised that New Zealand honey was not to be got by cut-throat competition, and a healthy trade-could be established. Mr. Ward said he had retailed honey at Home at never less than 1/ per 1b for extracted honey, and it is a lick as 1/6 in glass jars; sections it is dich as the dist the an entry at the home and that the a market alone, it seemed to him that they should hot Him themselves but should give atten-tion to other centres.

not limit themselves but should give atten-tion to other the advantages of trade when the advantages of trade when the West of England had already been realised, and they had ap-pointed Liverpool as the port for the receiv-tion of their produce. Eventually at a se-clation would have a market for all New Zealand and the most suitable mar-kets for each variety of honey. Mr. Rentoul considered that the executive had make an excellent start, and would be able to develop their export trade into a big thing.

ITALIANISING THE APIARY.

(By ROBERT STEWART.) By ROBERT STEWARD, I have been asked to give an article on some aspect of queen-raising at this meet-ing. I will first take the case of a heckeeper who has black or hybrid bees, from 50 to 150 colonies, and wants to Italianise, yet is so situated that he cannot do it by buying

to advantinge, and has had little or no réc-vious experience in queen-raising. He should stark procuring the previous autumn from itre to tweive pure unisate queens from some to tweive pure unisate tests select tested of the procuring two tests and the procuring two it tests expect tested on breeding queens, as these will also be one breeding queens, as to fix the proper that the spring. We mitroduced to strong columniation of the wing these are to be kept well unit the wing these are to be kept well unit the pring. These are to be kept well unit to the fail up of them are doing in bees cap warming time of the these colonies is to have a frame of the supplies the three parts drone comb put in from half to three parts of them have the fag tone cells sented.

Five days previous to its being needed, a Five days previous to its being needed, a frame of sconb that has not been bred in more than once or twice is inserted in the centre of the rood nest of the colony with the breeding queen. On the fifth day it will have a largueen. On the fifth day it will and the simplest way to prepare it is to cut out an inclusion of the eggs in it; a half-out step may be also taken out straight up and down through the centre of the eggs are

outer lower cuge of the tags in art straight inch strip may be also taken out straight up and down through the centre of the eggs. It is round these edges that the bees will start the queen cells principally. Here we will go back to the hive that is to receive this prepared frame. Elight or nine days before it is required, take a fairly strong colony whose queens you do not want to keep; one with from five to seven frames of brood and strong in bees will do, the stronger the better. Have a division board made of excluder zinc to fit the hive nest made of excluder zinc to go to over it. stronger the better." Have a division board made of excluder zinc to di the hive nest so that a queen cannot get round or over it. Now find the queen, put the frame of hrood she is on next to the outside frame on one side of the hive, put in the excluder divi-sion and crowd up all the other frames of brood next to it. On the eighth or ninth day after take out the two frames the queen is on, kill her, shake all the bees of those two frames and give them to some other colony. This leaves your colony now queen-less and with no brood of its own young enough to start queen cells on, but with plenty of nurse bees. plenty of nurse bees.

It is now ready for the frame of eggs, which must be taken from the colony selected to breed from, prepared and inserted

If the weather should not be fine now, or there is no honey coming in, this colony must be fed on a little sugar syrup each

must be fed on a little sugar syrup caca evening while cell-building. If it is strong in bees and weather, is fairly warm, a second prepared frame may be put in five days later. The first one will in a day or two be having the first of its cells capped over. The cells started can be counted, and eight days from the time the prepared frame was cheard doreke as many colonies of their old arys from the time the prepared frame was given deprive as many colonies of their old queens as you will have cells for. Two days later the cells can be carefully cut out with a little of the comb round their have outd work one incontrol to over of the

cut out with a fitue of the comb round their base and each one inserted in one of the colonies made queenless by cutting out a small piece of comb in one of the frames of brood and carefully putting the cell in its place

If all goes well, these cells will hatch

If all goes well, these cells will hatch out in a few days, and the bees being queen-less will accept them, and the young queen will herself destroy any other cells they may have begun on their own brood. When the usual swarming season is about due all hives given cells should on the ninth day from the time of the old queen's re-moval be carefully examined in case of their keeping their own cells, when they would swarm if allowed to do so. In such a case, if the young queen has hatched out all right, their own cells much be removed. If all goes are ready to take their first young dueens are ready to take their first young dueens and you have a such a case, flight there will be a fair number of drones dight there will be a fair number of drones dying from the colonies fed up for that pur-pose.

All black or undesirable colonies must be All black or undestrate condities whet de prevented from raising any drones, or as few as possible, so that a fair number of the early queens will get a chance to be purely

mated. This is about the simplest way to Italianise, as no special outfit, appliances for introducing, of queens, or anything not in everyday users an anjary is required. By using several can aplary is required. By large number of colonies can be given young Italian queens early in the season.

I would advised by the season. I would advised anyone who intends to ane-ceed to procure some up-to-date work on pliances, and to use two or three colonies to experiment and work on. Also, if within reach of an up-to-date spinirst, try and get him to give a working lesson or two on the subject

Having got Italian queens at the head of Having got Italian queens at the head of each colony, it is a district with many black hees about it will be found that a good many the young queens have been mismated. This will be found interfere with the working capabilities of their bees, but no mismated queen should be used to raise queens from a should be used to raise queens from and as they get aged or fail in any way must be explaned by a young one from a premated mother.

In the selection of the queen mother will depend success or failure to a large extent It will usually be found safest for one It will usually be found safest for one not experienced to use from six to a dozen of the queens in the best doing colonies to raise his young queens from for requening and to procure new stock occasionally from a seliable source, not only to introduce new blood, but to compare with what he already has.

If young queens raised from new stock are superior to his own when tried, they can be used to re-queen all inferior or failing stocks. stocks.

stocks. As a rule, it will be found best to re-queen colonies with bad-tempered, mismated, aged queens, and poor stocks towards the end of the honey senson. At that time it will not affect the senson's honey yield, and there will be young, vigorous queens ready to go ahead the following spring.

The above should give an apiarist about The above should give an aplarist about to Italianize a fair idea of how to proceed. We will now turn to the man who has mastered the idea of raising queens, but how is he going to keep up the quality of his stock and possibly improve them?

Stork and possibly improve them? The first necessity to the production of good queens is to have good stock as a foundation, and to have the right conditions when queen-rearing. During the swarming eason these conditions are easily obtained. A colony to raise good queens, must be store the nurse have shown and the store of the swarming the nurse have shown and the store of the store of the nurse have shown and the store of the store of the store of the nurse have shown and the store of A colony to raise gour queens must be strong in nurse bees, have abundance of honey and pollen coming in. With such con-ditions cells can be started in a colony de-prived of its queen and all brood over seven

prived of its queen and all broad over seven days old, either on the natural comb, as previously outlined, or prepared artificially, and also in the top storey of any colony that is preparing to swarm. In using a strong colony to start cells for build cells of its own, lift four or five frames of broad into the top storey and put half storey in bly and not on the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the transet of the store of the store of the store of the other of store will also assist if it has been in use some little time previous by the event.

news. In handling frames with queen cells or the cells themselves they must never be jerked about or roughly handled in any way. If the bees have to be taken off such frames, bit them off with a feather, and ucver allow cells with young queens to get the least cold or chilled. From the day time a young queen is ready nother to the must be no chance of chilling howed even for a minute. Chilling is one of the most prolific sources of inferior and short-lived queens. In procuring his first Italian stork the aparist will be well addished reputation. Later on he can try different breeders if he has a mind to. In handling frames with queen cells or the

has a mind to.

has a mind to. In getting queens by mail it must never be lost sight of that they may be, and some-times are, permanently injured, in some cases by rough usage, but principally by get-

ting chilled. Even if a queen breeder does his best, the result in such cases is disap-pointing.

If, however, the damaged queen is bred from, her young stock will be all right and not in any way adversely affected, but she herself will never be as good as formerly. If valuable, young queens should be raised from her as soon as possible, as damaged, such queens are apt to and generally die sud-denly in a few months' time, sometimes Sooner oner. The best way to improve is to breed for it

The best way to improve is to breed for it by selection, and this requires constant at-tention and observation over every colony. First, note all colonies with serious faults, such as mismated, badly marked, with too much inclination to swarm during the

Seeson Any that are always strong in bees but do

any that are inways strong in bees out do not store honey in proportion to their num-bers during honey flow; Any that easily allow other bees to rob them;

them: Any that seem to have a larger propor-tion than the average of small-slzed bees or drones in their hives; Any that are vicious without cause; Any coloues slow in getting on to forage at a distance; Any with too little brood during the breed-

Any with too inthe brood during the oreca-ing senson to keep the colony populous; And also any colonies that show larvae replaced by eggs in any large proportion of their unsealed brood.

All with these faults and characteristics are to be ruled out

Then, to select your breeders: Note the colonies whose bees come in with the heaviest loads of honey during the honey

now; Those which show plenty of old workers amongst their numbers all through the season:

eason; Those that have a regular brood nest losely packed with young, the sealed brood ith a few empty cells through it; Those that do not stop work when the hive sopened, but are going as usual in a few ele with

minutes; Those that are out early and in late on

Those that are out early and in late on all fine days during the honey flow; Those that are amongst the first to get on to honey at a distance; Those that as long as they have combs to ful and plently of room do not attempt to swarm during the honey flow; Those that, other things being equal, are the first to start sealing up honey when the flow comes on.

Those that, other things being equal, are the first to start sealing up honey when the Use your oldest queens that are best in these points to breed from. If several young queens during their first senson show exceptional promise of good qualities, raise a small number of young the next senson whether the good qualities are likely to show up in their stock or not. We now come to the queen herself. She should when a tright be active in her move-ments, large-looking round the thorax, with abdomen rather long and tapering, with you length y wings. Queens with very short when a tright be active in here whether while here in a large look on the provers. After starting to lay, her abdomen should here in a larging well bronder while here in a larging. Queens showing a taper-ended abdomen while fed up for laying will give bees of poor homey-carrying capabilities, and always re-qualities there are behind a queen the sure re these of transmission to her descendants. In selecting for non-swarning a few We may be useful.

given to prevent overcrowding for any length of time, and especially during the honey flow, so that bees are always in full work

work. When bees prepare to swarm note all those colonies that sincken in their work or are prevented by removal of cells from swarm-ing, for such will be persistent swarmers. Baise your queens and drones from colo-nies that either do not swarm, or when forced to swarm keep at full work pilling in the honey right up to the minute of coming out.

Mr E. G. Ward expressed his keen appre-clation of Mr Stewart's paper, which con-tained some very which is information con-cerning queen rearing. He had given lines

on which the amateur and the experienced man could both work with confidence and

Mr I. Hopkins also appreciated Mr Stewart's paper, and added that he did not think anyone who knew anything about the rear-ing of queens could have written a better paper.

Mr Allan said they knew Mr Stewart in Mr Allan said they knew Mr Stewart in the South as a careful and painstaking apiarist, who had done great service to the industry. "When 1 tell you he has cured foul brood with a knife it will astonish you, but he has done it," went on Mr Allan. Mr Stewart was well warranted in giving those opinions as the result of his wide experience.

Mr. W. E. Barker and Mr. Ireland also Mr. W. E. Barker and Mr. Ireland also complimented Mr. Stewart, the last-named referring to the remarks concerning the la-jury to queens by chilling. Root Bros. had frozen queens burdling. Root Bros. had frozen queens that they have the had block, and after they were thaved they had be they have the had found that they could rear queens that were almost immune to paralysis or foul brood. Mr. Honkins sold these was one thing be

Mr. Hopkins said there was one thing he would like to say in the interests of com-mercial queen rearres, that when a queen was slightly injured in transit the bees were netty sure to surpressed one are say the mercan (diem rearrs, that when a queen was slightly injured in transit the bees were commenced to lay. Sometimes mismating followed, and they were biamed for selling mismated queens. As soon as a person got an ew queen her wings should be elipped and then they would be able to see if she had been superseded. Unless this was done they couldn't tell whether she had been mis-mated until they found hybrid bees in the hive, and then they would go for the com-mated with they done had experimented with the chilling of queens, freezing them until they practically couldn't more. He had sent some queens to Gore, a distance of some thirty miles from where he lived, and owing to the cold they arrived at their destination as stiff as a poker. They were sent back to him with the intimation that he had sent add bees. Mr. Stewart put them

sent back to him with the intimation that he had sent dead bees. Mr. Stewart put them in his pocket, under his arm, and on arriv-ing home the bees were thaved and allve. He kept a queen for a time and she seemed all right, but one morning she was dead That was the way they always went after chilling, sooner or later, but certainly within three months. He had proved it time and time again by practical experience.

A NEW CONSTITUTION.

A NEW CONSTITUTION. The draft of the amended constitution was considered by the Conference in com-mittee, and in its new form was adopted on the motion of Mr. Ireland. The new con-stitution read as follows: the known as the Nr The organization shall be known as the Nr Heeleveper's Association of New Zealand.

The objects of the association shall be the improvement of the conditions of the beekeeping industry, furthering the inter-ests and the prospecify of the beekeepens throughout the Dominion.
 Membership shall be extended to any beekeeper who is in accord with the alms and objects of the association fees: up to 15 colonies 57, 16 to 50, 10(5), 10(

the second secon

5. The executive shall consist of a presi b. The executive shall consist of a presi-dent, vice-president, secretary-treasurer, and four members (two being from each Island), who shall be elected at the annual meetine. dent, who shall be elected at the annual meeting. Should any vacancy occur during the year the executive shall fill the vacancy. The duties of the executive shall be:-The general control of the associations' bugins the interests of the associations' bugins in content on the associations' bisines, in furthering the interests of the association; the publication of reports; advertising and marketing of honey and any other busi-ness which may be deemed advisable in the general interest of members.
 6. The president shall preside at all meet-ings of the executive, and also sign all cheques. He shall have a deliberative as well as easting vote.
 7. The vice-president shall occupy the chair in the absence of the president, and in the event of the office of president coming vacant he shall act until a new pre-sident is appointed.
 8. The screttary-treasurer shall collect at

8. The secretary-treasurer shall collect all money due to the association, keep such books and accounts as the executive may require, countersign all cheques, conduct the require, connersist an energies, connect the correspondence, keep the minutes of the meetings, and do any other such work as is necessary or the executive may direct. He shall also write the annual report and prepare the balance-sheet, which must be signed by the anditor.

prepare the balance-sheet, which must be signed by the anditor. 9. The annual general meeting of mem-bers shall be held in June or as near thereto as may be deemed advisable for the purpose of receiving the report and balance-sheet, the election of office-braners, and the ap-the discussion of any subjects of interest to the discussion of any subjects of interest to the beckeepers which may be brought for-ward, and general. 10 It is specially provided that should any question arise which in the opinion of the association and to the secretary of all the local branches a clear statement of the position, and provide a voting paper so that members may vote on the question by mall.

position, and provide a voting paper so that members may rote on the question by mail. The voting shall close not less than thirty days from the date notices are posted. The voting paper shall state the date on which the poll shall close. 11. This constitution may be amended or dissolved at any annual or special general meeting called for that purpose, provided that sixty clear days notice of the proposed amendment or dissolution be given by cir-cular calling the meeting to each member of the association and to the local branches.

The question of the formation of a co-operative scheme was, on the motion of Mr Bray, referred to the incoming executive to report within six months.

FINANCIAL ASPECTS OF EXPORTING.

(By W. B. BRAY.)

(By W. F. BRAN.) There are no difficulties in the way of the National Association doing the exporting for the members is followed. The financial re-arrows multi-section that the section of the arrows multi-section of the items would be directly charged to the individual shippers The following outline of the way in which clearer:— The association have arrangements with

The following online of use only make it clarry produce is shipped will make it the term. The solution have arrangements with ronsignments being sent to the grading set ond afterwards to the ship's side set of making out the bills of lading and reader bill on the London agent, and ware attached to his bill, side days' sight bills discould the bills of the strategies of the side of lading are made out of the side of the bills of lading are made out of the side of the bills of the side of the side of the side to the bills of the side of the s

for, but there should be no difficulty in this for, but there should be no difficulty in this matter if the consignors of honey were satis-fied to draw 2d per lb. Later on as the ket became more stable the margin could be increased.

increased. Insurance.—The association have arrange. Insurance, the association have arrange-ments with an insurance company to insure the total consignments for the season. The association makes itself liable for the total association makes itself haple for the total charge, and they charge each shipper with his or their share. The rate is about 15/ per cent, and arrangement can be made for the policy to come into force at any particular point.

Commission is 3 per cent on the gross recommission is o per cent on the gross re-turns. The produce is usually sold on terms allowing two months' credit; bills at two months are tendered and discounted. The London rate of discount is very cheap, varying between 4 and 5 per cent.

ing between 4 and 5 per cent. Landing charges rary a good deal, being from 10/ to 30/ per ton. If the produce is sold ex ship the price it is sold at is slightly lower, as the buyer bears the cost of landing. The consignor is liable for any shortage in the final returns, but in shipming withous

The consignor is liable for any shortage in the final returns, but in shipping without recourse the agent bears any loss and the consignor receives any surplus. Not many firms care to handle consignments without recourse, but it is the best arrangement for the consignor, as the agent is bound to sell for enough to pay the draft. Some factories do not care for the method, as they con-sider that the agent will sell for the amount of the advance and no more, but actual reof the advance and no more, but actual r turns show that a surplus is obtained as actual rerule.

ON THE PROBABLE ORIGIN AND SPREAD OF FOUL BROOD.

(By W. E. BARKER, Peel Forest. (Read before the N.Z. Federated Bee-keepers' Conference, Wellington.)

All Nature is one and undivided; it differs only in degree.

Gentlemen,-As I have been asked to present a paper to this conference, I have thought I could not do better than contri-bute a few remarks on the probable origin and emed of feel burde a contribution to oute a rew remarks on the probable origin and spread of foul brood—a recapitulation, in fact, of some letters on the subject I contributed to the Apirists Column of the "Otago Witness"—in the hopes that it may lead to an instructive discussion on this somewing over-with the Represence base of means to cope with it. Beekeepers have got into what I consider a (perhaps a wholesome) panie, and certainly a dangerous, in-correct and detrimental habit of talking to the "oi polloi" of foul brood honey, etc., almost as if the poison lurked beneth each honeyed cup instead of bains carried in the almost as if the poison lurked beneath each honeyed cup, instead of being carried in the body of the bee. The somewhat disjointed-ness of this short paper is to be accounted for by its having been compiled from the aforesaid letters. I may state I am very far from being a beenaster, other occupations preventing me from devoting that attending to them I should like keeping them at first mainly for the purpose of the fructification of a large orchard, so that what remarks I may make are more from the standpoint of the science of bacterial disease. If has may make are more from the standpoint of the science of bacterial discase. If has seemed to me often absolutely childish the way the majority of queen breeders adver-tise "all yellow" golden queens R5, banded Hallans, etc.; one might as well choose one's wife by the number of freathers she wears in her hat as a queen by the number of rings on her abdomen. Remember, if you breed for feathers you will get feathers, but at the expense of some other attribute. In point of fact, the appearance or encourage-ment of hairs or feathers always points to the prenouderance of the male element or point of fact, the appearance of encounce inent of hairs or feathers always points of the preponderance of the male element of gamete in Nature, and the corresponding descenceacy of the female. What we want is strong enough to resist their investment of the constitution becomes want if once the constitution becomes value by inbreeding (by trying to breed nees true by inbreeding (by trying to breed nees true to colour, for instance) effect matter collects to colour, for instance of effect matter collects to colour, for instance) effect matter collects to the fluids of the body suitable it to the sus-tenance of bacteria; then they appear to con-tent and the structure of mather in the her consumptive bacillus of man, or the bacillus of foul brood that decimates the constitution of the bec. It is my strong opinion that it is the sideness of the infected bees that makes some refuse to clean up dead larvae,

and that that is one of the wherefores of the McEroy treatment being so successful by forcing the bees the sources of the beaters in their body fluids in their endeavours to make wax. That italians so a race are more in-ented that the source of the source of the endeavours of the source of the source of the endeavours of the source of the source of the endeavours of the source of the source of the endeavours of the source of the source of the endeavours of the source of the source of the endeavours of the source of the extent Datwin's theory of the survivation extent Datwin's theory of the survivation of the extent Datwin's theory of the survivation of the source of the extent Datwin's theory of the survivation of the source of the s attack and infile assistance could sub not: ing me at some succumbed, necessita the extent Darwin's theory of the survival of the fittest, no bacterial disease will a the fittest, no bacterial disease will and be swept on No bacterial disease will and be swept on No bacterial disease will and the fittest is survival of the fittest is superial and suffi-cient. I and my previous the breeding of a foul brood resulting bee is not altogether breek for constituting bee is not altogether breek for constituting bee is not altogether breek for constitution only—I mean, roughly brood without noise of the superial breek and the distance as any observant queen, because these shave a good con-stitution able to sweet in first and resist the "Joreign" invasion of bacteria. If I am not brood has been often spoken of, have a strain of the Carniolan in the which may foul brood. Beekeepers talk in combating it to larvae." If the honey did not come out of the honey sack of the bee there would be no bacteria in the honey did not come out of the honey sack of the bee there would be no bacteria in it. The bacillus is a foreign of the honey sack of the bee there would be no bacteria in it. The bacillus is a foreign subject in the honey—that is, it does not multiply itself in it as it does in the fluids of the bee host or its larvae. Why it is so fatal to the larvae is, of course, because, like a baby fed upon tuberculous milk, it has not <text> vet attained its natural resistant powers

teria. Thus on the invariant interpretation of the second state of the invariant of the second state state state state and state state state state state state state of the second state mue to any outrageous increase of thurse bacteria. How long this hasts we don't know, but we do know that a naturally strong constitutioned animal can and deed for the stress in the state of the stress in the state of the stress in the s

ticipating the attack of a vagrant or foreign invasion of foul brood germs by making the body fluids of the larvae inhospitable to bac-

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FOUL BROOD.

Patter not ineptly calls a "yrrus fixe." FOLD EROOD. To CLU EROOD. To CLU EROOD. To Aspects of Foul Brood, "Mr. R. dible statut de lesses had been known almost to the sease had been known almost to the year 2000 years ago in Italy. The the sease in the corres of time, had killed out was one of the reasons why the Italian and the disease had been known almost to the year 2000 years ago in Italy. The the weaklings in Italy, and possibly that was one of the reasons why the Italian and the disease had been known almost to the year 2000 years ago in Italy. The the weaklings in Italy, and possibly that was one of the reasons why the Italian and the correst of the possibly that the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the reasons why the Italian the the state of the state of the state to any broad the state. The state of the state to any broad discate. It was the discase. This the base of the of the low set forms of life the state of the of the low set forms of life the state of the of the low the the the state of the the state of the of the state. The might have the state of the own mich-condensed bashiresons the state of the state which the the state of the state of

They had be seen to be experiences in dealing with foul brood, and mentioned their success in stampling it out. The second stampling is out. The second stampling is out. The second stampling is out to be set stant. Mr foother is the best stampling is out of the second stampli

to allow the bees to clean out infected wells. It was best to do away with them. Mr Langford asked what the results were of the experiments being conducted by the Department. The results would latter on be published in detail, but so far there foundation was made from badly-diseased from the spublic solution would be able from the same colonies would be kept users.

disease. Mr E, G. Ward said he had supplied some of the diseased comb to make the foundation wax, and it came from one of the rottenest foul brood colonies they could

With to see, Mr Harchingon said that in Professor Cheshire's experiments it had been found that foul hrood would stand heing boiled for eight hours. He would not be too sure of the result of the Government experi-ments until the colonies had had another Wr that sure the sure of the sure of the sure of the Wr that sure the sure of the sure

and the colonies had had another spring.
The Gibb reitersteel that, contrary to Mr Barker, he had found Italian bees more finance were heing treated they workd, but the black were being treated they workd, but the black bees did not. The germ another through the honey: if it could be carried in the sir, there would be no hope for aplarists. In a microscopie exhibit the bees did not. The germ of blacks were being the honey: fit is could be form one black been did not. The germ of blacks were being the honey. The set of the sit the best out of the black best of the sit the best out of the sit the best out of the sit the best out of the black best of the sit the best out of the black best of the black best

AN ANOMALY IN FREIGHTS.

AN ANOMALLY IN FIELGUM. AN ANOMALLY IN FIELGUM. The Brickell made some interesting com-firisons of the rates charged by the Rall provide the states charged by the Rall index one to not charged by the Rall index one to not not builter over the subscription of house was converged for \$16,6 and one ton of builter over the subscription of the subscription of the subscription \$16,6 and one ton of builter over the subscription of the subscription of the subscription to the subscription of the subscription of the subscription of the subscription of the subscription for builter was approximately 50f. This means that for every four tons of builter subscription of the subscription of the subscription the measurement of a for the subscription of the subscription of the subscription of the subscription the measurement of the subscription of the subscription the measurement of the subscription of the subscription subscription of the subscription of the subscription of the subscription the subscription of the subscription

AMENDMENT TO THE LAW.

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be the only ports of entry for bees honey comb-foundation, appliances, etc., and as-to prescribe the product of the second stroyed, or otherwise disposed of. Provision for the registration of all aplaries and the smoont of fees are also provided for. Al-such regulating and the second stroyed of the second stroyed of the second second stroyed of the second stroyed of such the within 14 days after the next succeeding session. Mr Bartlett 'Miller went on to say that they should endeavour to get the Govern't it Fields and Orehards birision to that of the Aplaries Division. He also called attention to the urgent need for equipping inspectors to have power to deal with honey produced under hasantary co-then the that the postion and the aplary with honey moduced under the same to deal with honey produced under the same to deal with honey is more the ought that possibly are Gibs, and he thought that possibly

ditions. This work should not be done by the Health Department, but by the aphary inspectors. Wr (10) mind he thought that possibly by for the probability of the probability of the ment. Then, H to action were taken, the Association could complain. Mr Adams' motion was then put, and carried unanimously. Miller Allan, Cottrell, and Gibb should wait on the Fremier, and ask his assistance in getting these proposed amendments on the Statute Rook. Mr Barlett-Miller and leaf of the pre-statute Rook. Mr Barlett-Miller and leaf of the pre-tention should be drawn to the resolution passed at the last annual conference, i.e., that the fee of 2.8 therein proposed be raised to 5.7 this money to be spent upon an official in charge who is an up-to-date qualified queen-raiser. Mr Bartichisson opposed the motion, thinking that they should not be taxed to pay for an experimential station when other fund. The Previent and then yene other theory.

The President sold they were trying to get the Government apiary under the con-trol of the Apiary Division. Under pre-sent circumstances, it might as well be in Ametica for all the good it was to them. After an amendment by Mr Bray affirm-ling the principle of a registration fee had been put and dechared lost, the motion was carried, and the Conference adjourned.

DEVELOPMENT OF THE LOCAL MARKET.

(By R. W. BRICKELL)

There is perhaps no part of a bee man's activity which causes him such a lot of worry and anxiety as the disposal of his

erop. To a are all producers, and know you' hushness thoroughly from hiving to swarm, through all the various stages thil the ex-phone of the stage stages that the ex-phone of the stage stages that the ex-phone of the stage stages that the ex-traction of the producer. The securing of the highest possible price for the honcy is a matter of vital interest to generally understood. To many beckepers the market is a varger of the site consists of the nearest is a varger of the stage stage stage stage stage and the stage to a place, and, I am afraid, to most of them it consists of the nearest is a varger of the stage stage stage stage stage and the stage stage stage stage stage and the stage stage stage stage stage and that noney will seel of itself, and if its devices, in stage of the stage and the its stage stage stage and the stage and the its stage stage stage and the stage and the its devices in stage of the stage and the its stage stage and the stage and the itself and the its stage stage stage stage and the itself and the its stage stage stage stage and the itself and the itself and the its stage stage stage stage and the itself and the itsel crop. You are all producers, and know you

in moving could not have a set of the set

appear.

The wonder to me is that honey is used as much as it is. At the present time I do not believe that one person in five uses honey at all, and I am quite sure that not larly. If you think I am exaggerating, call on your friends in and around the town, and ask them what is their consumption of Honey near the sure is the consumption of

estimate? Fernaps, then cut it in nail, and say 4lb.—threepence per week per home of an average of five people, and this for one of the most delicious articles of diet that Nature in her bounty has provided.

Nature in net bounty has provided. This small estimate of 4b. of honey divided amongst five people per week, means that 2,500 tons of honey are required annually for home consumption. Just think of it. Yet some of our friends are worrying over export.

over export. Our business as producers is to tell the people we have honey to sell, that it is a good article of diet, healthful and cheap. Here in New Zealand we have plenty of beekeepers, plenty of honey, but not much market. New, my appeal to you is pool yatisfactory state of arbairs. The direct result of advertising is always an increase in consumption, generally foil

an increase in committion, generally fol-lowed by a substantial increase in the re-turn received by the producer. Is not this worth working for?

worth working for? In outcet, is not this In Canterbury, quite recently, large quan-tities of honey could be bought as low as \$40, per 10, and I have it on reliable authority that some producers offered their crops and received less than 3d per 1b. Canterbury honey would hold its own with any honey in the world. Advertising can be undertaken in many different forms. For the first year I would suggest to the incoming excettive the the stational grows in numbers and in strength output phases can be undertaken with ad-vantage. vantage

First, I would suggest that a large portion First, I would suggest that a large portion of the funds at the disposal of the executive be set aside absolutely as an advertising fund. As soon as this fund is known the executive should appoint some advertising expert, tell him what is warted, tell him how much money there is available, and he will suggest a scheme. I wish to emphasise here that it is useless for auyone without event knowledge to con-

r anyone without expert knowledge to con duct an advertising campaign with any hope of success. It is better to do no advertising at all than to add to the mass of ineffective ness which passes current as advertising in many of our daily papers.

The advertising scheme would probably

The advertising scheme would probably consist of the regular publication of articles on the use and value of honey as an article of diet, and not, as at present, a haxury. Also the regular publication of little pithy paragraphs in the advertising columns of our newspapers, and the regular publica-tion of the various incidents connected with the life of the base

Another phase of advertising would be undertaken which would not cost much Another phase of advertising would be undertaken which would not cost much money. It is that the Executive use who has honey to sell to show at our Agricul-tural, Pastoral, and Floral Shows. At present time most of the societies give prizes, and nearly all of those who have not honey on their schedule would place it there if there was any competition likely. It is regretable, however, that two for there entries is, I am afraid, above therearge, whereas there should be thirty or forty for every class. Enter any show and watch the people in

or forty for every class. Enter any show and watch the people in front of good exhibit of, say, bacon. See how each one says "I like that," another likes another, and unconsciously bacon and eggs flit before the mind's eye. There is the suggestion of the large industry in-the suggestion of the large industry in the suggestion of the suggestio

Follow the crowd round to the honey ex-hiblt. Two or three small pots is all that is seen. The people pairs of which tak-ing much notice. There is none of that comparison and suggestion of how delideous it looks which large exhibits convey.

The details of these exhibits could be worked out by the general and local secretaries who would send out produce to all the who would send out produce to all the who would send out pro-tection of the second second second second it, stage it and result have to do would be to fill his bottles and consign forward. The publicity of this form of advertising is invaluable.

The property of the standard of course, the work invaluable. Now as to funds. Of course, the work of the secretary and the payment of the advertising charges would cost some money. Each and every beekeeper here present

of the secretary and course, the work advertising charges would cost some money. Each and every beckeeper here present should elect himself keeper here present for members of this a voluntary curvasser for members of the census repeating. From the Census repeation. The constraint of the second morghout the Dominion. It ought is there are thousands of beckeepers scattered heroughout the Dominion. It ought is the at least if all will do a little work. The second second second second second at least if all will do a little work. The second second second second second extra profit for every ton produced. It means, further to a second second second second catalon, here a second extra profit for every ton produced. It means further you can be second second second second sectiation, he has a vary good chance of getting 42 6/8 in return.

42 6/8 in return. There is another point in the development of the local market which requires serious consideration by this Conference, and that is the wholesale and retail price. Such is the condition of commercial life, we cannot get away yet awhile from the mid-dleman.

dleman. Until the beekeepers as a whole realise

that there are three distinct classes of people to whom they can and do sell their honey, and treat each class differently, there that is not much possibility of any really useful

The classes of buyers are the wholesale merchants who sell to shops and stores only, retailers who sell to the puble, and the general public.

retailers who sell to the public, and the general public. When the merchant buys he expects to make a profit on his purchase somewhere is torekeeper, and the storekeeper in thur expects to make a profit of 20 to 25 per cent from the general public. Unless the beekeepers protect the mer-chant by charging the retailer and if the beekeeper does not full moth marker and if the beekeeper does not general price. The storekeeper will not andle. If you can retail, be all means do so, but get the merchant is and the storekeeper's profit in addition ther deekeepers a chance who are not so fortunated as yourself.

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Do not say that's no good. Give their scheme a trial, they are all commercial beekeepers. Remember, they are working for you and trying to conserve your interests, and deserve your hearty

FOSTERING THE HOME MARKET.

(By J. ALLEN.)

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INTRINSIC VALUE.

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according to the mixture that the bees make The second secon of the two. Now, what I want to point out to you is this, that if the beekeeper is going

PROPER FORM.

PROPER FORM. 1 believe some of our honey is finding its way on to the market in old krossene and other sorts of old tins. This is madness. If don't like to see good clover honey meant for Home trade put into new tins, let alone old ones, and glass bottles are no better, rather worse. Some seven or eight years ago I was running a small dairy factory inkline butter, and the question suggested market, and it seemed to me that honey put up in the same way would meet a ready sale. Out of that suggestion has been evolved what is known in the South as the pat system of putting up honey. As a ready fail, while formerly, when I put in a full, the same of day a pound with a ready sale, while formerly, when I put in the doll, this, it had a dragging sale at the full the other it simply was to winded they find the other is simply was to winded in the other is simply was to winded. I so that a specific at a much dener other botter to repack in glass or tin and sell reful-ea much dener clasted article at a much ender clast bester to repack in glass or tin and sell reful-ea much dener clasted article at a much ender other botter or prack in glass or tin and sell reful-ea much dener clasted article at a much ender other botter or prack in glass or tin and sell reful-ea much dener clasted article at a much ender botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or provent in the source at the other botter or to repact in ginss or thi and sell retail—a much depreciated article at a much enhanced your time landing the patt sends. The sends of the set sends of the set your time landing the patt sends with, and to the approximation of the set sends of the set of the set sends of the set sends of the teldows and laboritors. What I will seem teldows and laboritors. The and much seem the set of the position. The and hat set the commune, and this fatal. Gase is too expensive. The is cheaper, but you cannot take the honey from it and put its on the table in a presentable form. The consumption is limited. Notwithstanding this difficult, however, a good deal is being done in some markets with 2b, tims. I understand that this package has had a that path and that the package has had the set of the insercent II market and the shift is difficult, however, a good deal is being done in some markets with 2b, tims. I understand that this package has had that the best had been used, the demand would have been very much increased, and that at a greatly enhanced value to the beekeeper. Beekeepers should look into this matter. In paper we have paper pots, kilen honey bags and parchment will be found bare were bare were the second book into this matter. In paper we have paper pots, kilen honey bags and parchment were been seen the second way be the second way be the second bare bare bare the second bare the second way bare and of the market and the second way bare and of the market are second way bare and bare bare the second book into this matter. In paper we have paper pots, kilen honey bags and parchment bare bare the second bare bare ba to repack in glass or tin and sell retail—a much depreciated article at a much enhanced

Perhaps it would not be out of place for me to particularise with regard to these three packages. The paper pots taking the 2D. size add §d per lb. to the honey. Compared with 2D. tins there is a difference of about 4 per lb. or 42/3/6 per ton in favour of the id per lb. or 22/3/6 per ton in favour of the pots. If the difference were the other way as to cost 1 should still expect best results from the paper pots. In shape they re-semble a small flower pot, heing closed with a paper dise, very easily put in place. The hency requires to granulate before-being shipped. The Alken honey bags are probably known to most beckeepers, having been on the market for a good many sea-sons. They add (taking the 2th size) just id per b to the cost of the honey, or less than half the cost of the pots. They are been on the market for a good many sea-sons. They add (taking the 2b size) just it is not all the cost of the poice. They re-more tedious to handle than the poils, as they require to stand in trays to granulate before being folded up. As a package, however, they are very suitable, and will, 1 an sure, receive the approval of the con-sumer. With regard to the parchment vrappets, 1 cannot speak, with the same vise, but, as I have already said, they have size, but, as I have already said, they have not been a universal success. In uny own case, with two assistants, I can take off he moulds, cut, wrap, and pack ready for market at the rate of one evt per half-bour or ldewit per day. I would very much enjoy a race so far as speed is concerned uits either. You have before you a sample, and you must judge for yourselves as to the suitability of the package. The moulds for storage for granulating cost. 4 per ton of honey, and, with ordinary care, would last a lifetime. I make them much more simple at they are as handy as field in stored away quite as quickly, and, if any-one is interested, I think I can show that the honey can be got ready for shipping after it leaves the moulds at as nearly as possible just the same price as if it were to meet, that the same price as if it were to meet in the same spice as in the simple and spone is interested, I think I can show that the honey can be got ready for shipping after it leaves the moulds at as nearly as possible in. I don't know that it were to meet in the same price as if it were to meet in the same price as if it were to make the some thing which I must not fully the money the some thing which I must not fully the method. I don't know that it were tharchment, if the honey is exposed to a moust atmosphere, it will attract moisture, and, as we sometimes say, it will weep.

and, as we sometimes say, it is far as the Now, sir, let me repeat, as far as the Home market is concerned we have the ball at our own feet. We have no opposi-tion form outside, and if we will make Home market is concerned we have the ball at our own feet. We have no opposi-tion from outside, and if we will make up our mids to study both the consumers and the retailers wants, but principally demonstrates we will herease the demonstrates the we will herease the ender the study of the state of the state become a staple article on every fable. It become a staple article on every fable, it and that this will be a benefit not only to the beekeeper, but to the consumer as well. There are many other ways in which we could do something towards in-constant of the demonstrate of the article itself, and on placing it on the market in a form suffable to those who have got to use it. We can make our honey sell itself. I was speaking to a friend once about our Southland climate—it was snow-ing at the time. His remark was, we do not require to praise t, it speaks for lised. Place on your own or your friend's table a nice pot of granulated honey beside a Against to praise it, it speaks for itself. That is what we want our honey to the Place on your own or your friends. a nice pose of grand itself honey beside a nice pose of grand itself honey beside a nice pose of the second second second inconsciously you will find the saliva flow-ing in your month. The honey will quickly disappear. The children will want it-the whole honeshold will want it, and that is the best of all remons for impelling the honesewife to purchase it. In yourclusion: In what reserve.

housewife to purchase it. In conclusion: In what practical way can our National Association help the beekeeper in so far as these two necessary things are concerned? In asking this question, I am fully alive as to the fact that only the beekeeper himself can do what I ask. There are, however, means by which the Association can help us. The first are in the source of the source of the source from the source of the source of the source that the mean of the source of the source that the source of the source that the mean source of the source of

measure), but it will never be easing that now, and I consider that the Association should at once go into this matter and sift it to the bottom. The other method by which our Association can help as that I wish to draw your attention to is infranka our advertising scheme. If we can set an official pronouncement as to the vaget he honey, and can then use the name of our National Association in connection with a grade brand, it seems to me that we can grade brand, it seems to me that w a grade brand, it seems to me that we can in some measure standardise our honey and thus make it easier for the consume in buying, to follow his taste. I think in will at once be admitted that such a re-sult would be of infinite importance to om can industry.

Mr. Allen then moved that it should be an instruction to the new executive to confer with Mr. Kirk as to the possibility of grading honey for local consumption. The resolution was carried unanimously.

The resolution was carried unanimously, Mr Hopkins, referring to the part system, said he had brought some honey in this form from Oamaru to the North. He took every care to keep it cool, but be fore reaching Auckland the blomey had melted. The climate in the North militated against the success of such a system of packing

packing. Mr Bartlett-Miller said that some of them had put honey in Aliken paper bags, and it kept well for some three months, and then began to weep at the corners. By giving it another coating of parafilm wax at 110 de grees, however, the corners were seal over, and he had the packages for over two years, and they were still as good as ever Mr E. G. Ward: You practically hermetically seal the package by doing that.

Mr E. G. Ward. You practically hermetically seem the package by doing that. Mr Rentoni said there could be no question as to the advisability of developing the local market. The association which he represented was very strong on the matter of exporting, and he thought this should be taken up with any scheme propounded for developing the local market. The Canterbury beckepers had been up against a deal mote an export trade. Mr Gibb, referring to Mr Brickell's remarks, said he did not think they did was very strong on the taken up was concerned. In the store at the same strong on the same strong on the same strong on the same strong of the same stro

the funds? Mr Brickell: The registration fees under the constitution will give the fees. Mr Pearson agreed to the course sur-gested by Mr Brickell, and the motion was withdrawn.

gested by Mr Brickell, and the moce-was withdrawa. Mr Baines said it seemed to him that mult they could tell the more-hart hat they could get a better private price the buyers could give a price they liked. At pressed the exchant could par one product. Mr Kirks said that their experience for they had established the expert trage on a sound to like, the local trade, or a sound to like, the local trade, or a sound to like, the local trade, or a sound the local market, they must on the question of co-operative of sound products of the local trade of a sound the local market, they must on the question of co-operative of sound price on the local market, they must

these. Mr Kirk unged the strictest layalty, He had seen the life of one or two vo-or two vo-secondariance and angevend by the optimized of the matter of the strict of advertising he instanced lits value from the example set by the test exporters of example set by the test exporters of the example set by the test exporter the test expected by the Government, and handed to the Planters' Association, by whem it was specif for advertising mar-perion, and, in thet, everywhere they verian, then were continually coming across "Ceylon test." So it should be with New Seenat house-not Smith Nerver's hearty, heart, but "New Zeahand house," (Heart, heart)

hear, but "New Zealand honey." (Hear, hear) The reland agreed with Mr Kirk as to the relation between expert and lecal trade, so far as the local market absorbing any hear like the second market absorbing any hear like the second families to take hear hair yound of honey each week. They had to expert their surplus in order to be able to the second families to take hear hair yound of honey each week. They had to expect their surplus in order to be able to the second families to take hear hair yound of honey was con-pended to the second families to take hear the marketing of honey was con-pended by the second families to the two is not be able to be provided by the second families to the provided by the second families to the head new the second hear to be able to cateforthe bekeepers had adopted that had to found that it injuried the honey in any way. He would not advocant the use wholesite to merchants who put the honey in small packages and the order of where a

of in small paragraphic alternations of where a cooperative association was absolutely killed by the disloyaly of its members. With regard to the pat system, his idea was that it would not do for the trade. Many storekeepers had no facellities for keeping the honey in a cool place.

The President hoped the new executive would follow out the advice of Mr Kirk, and foster the export trade, a commence-ment in which had already been made by the Association.

We association. MF E, G, Ward was satisfied that if he was to do any good work with bees in the value of the country to , when necessary, relieve the local market. "If you are going to kill the export trade, the best thing for me to do will be to drop out of the indus-try," he concluded.

are to to will be to drop out of the industry be concluded. Brickell, in reply, said he was the probability of the second with the alwacetes of except in accord with the alwacetes of except in an ended. In his opinion that it does not needed. In his word, we we developed. Mr Kirk had instanced the success of the Gynon tea planters, and if they had New winhad national honey in every shop winhad not the consumption go up; lastead or the dot the consumption go up; lastead or the definition of a constraint. The definition of a second-hand the carried of the definition of a second-hand the carried with long in a second-hand the carried with the definition of a second-hand the carried with the definition of a second-hand the carried of the long to our head, "he went on, "for head, "he went on, "do head to how the head," he went on, "do head," he with a stational: "Marinal:" (Applanse.)

The science of the executive or the science of the

Mt Allan did not think so. Any scheme which was going to allow any person to put up poor honey under the Association's brand would not do.

BEE FARMING IN POVERTY BAV 1878-1913.

with the result that T received a debit note for 1/0, which, I regret to say, I still "Cast spring I removed to a better site et al. (1996) and the same set of the set of the particular set of the tary, a quantity of the set of the

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THE SURVIVAL OF THE FITTEST (By A. JOHNSTONE.)

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present laws. At the present time, with the race of hese 1 have, there is no robbing of stores, There are, of course, attempts, but in all cases the resistance is effective. It is my custom every suring to make up about 100 two and three-framed nuclei for mating purposes, and, with a two by three-eighths of an inch entrance, there is neve-eighths of the inches the inches of the order of the inches of the inches of the time when it is too late to requeen, and ido not think them worth uniting.)

The selecting of the breeding once is of great importance in the organising of a good race of bees, and perhaps the mating of the young queens is of as great import-

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Christehurch.

THE OFFICIAL REPORT.

THE OFFICIAL REPORT. The publication of an official report of the Conference had been brought on ack partier stace, when it was decided to ack printer stace, when it was decided to ack printer stace, when it was decided to ack printer ack of the state of the state state of the state of the state of the partial state of the state of the state printer ack of the state of the state the sum of £01 towards the cost. The Kets, which was carfied by acclama-tion.

WATER CONTENT OF HONEY. and the public out that the regulations beney to contain 25 per cont of free water.

It was thought that a man might buy honey containing only 16 per cent of water liquid it, and relative cent of water liquid it, and relative cent of the second sec

CO-OPERATIVE EXPORT

CO-OPERATIVE EXPORT. The Cottrell read a report from the com-mittee set up to consider the question of comparison of the importance of obtaining re-production of the importance of obtaining re-production of the importance of the obtaining re-new Zealand to other parts of the Asso-vergested that the executive should be in-the Called States. The committee intribu-tinformation the Executive should be in-structed to formulate and put in force for the Called States. The committee is the in-structed to formulate and put in force for the former of the executive should be in-structed to formulate and put in force for the former of the executive should be in-structed to formulate and put in force for the Association should approach the structed to formulate and put in force for the Association should approach the structure of the New Zealand posspective the Association should approach the structure of two New Zealand posspective the Association should approach the structure of two New Zealand posspective and the suggested that the executive the Association should approach the structure of two New Zealand posspective and the suggested that the structure areas the theorem on the best terms areas and the suggested that the structure areas the theorem on the best terms areas the theorem on the best terms areas the theorem on the best terms areas the theorem of the theo

able. The report was adopted. Mr Cottrell then moved that the executive be instructed to formulate a workshile co-operative export scheme on the lines of the committee's report dated June 20. Mr Brickell seconded the motion, which was carried.

MISCELLANEOUS MATTERS.

MISCELLANEOUS MATTERS. On the motion of Mr Allan, it was defined to ask the Hist Commissioner to make the second seco

ELECTION OF OFFICERS.

ELECTION OF OFFICERS. The election of online resulted as fol-lows:-President, Mr. J. Allan (moved by Mr. Bartlett-Miller H. J. Allan, (moved by Guttrell); vice-president, Mr. J. G. by Bartlett-Miller, Bartlett-Miller), secondon by Mr. Mr. Bartlett-Miller), Messra Ireland and Gibb Bartlett-Miller), Messra Ireland All Gibb Bartlett-Miller, Messra Ireland All Gibb Bartlett-Miller), Messra Ireland All Gibb Bartlett-Miller, Messra island. Messrs Hutchilson, a Bartleit-Miller were proposed fr Island, and, a ballot being take named two were elected. Mr elected auditor n, the Baines

On the motion of Mr Adams, a hearty vote of thanks for past services was accorded to the late president and secretary. It was also decided that the sum of £10 and his expenses to the Conference should be voted to the late secretary (Mr Ward).

RAILWAY FREIGHTS.

CALLWAY FREIGHTS. The Alian reported that the dominism of the second second second second second second second the statement of the second second

N.Z. PRODUCE IN ENGLAND.

N.Z. PRODUCE IN ENGLAND. An address was given by Mr W. D. Lysni, Broadniker of the Bristol and Dominia's Productor of the Bristol and the advantages to be gained by shipping to the West of England ports in preference to London, and he also explained the objects of the cooperative association which he represented, and the methods by which it vides in London. And New Zealand pre-times in London. A hearty voie of thanks was accorded to Mr Lysnar for his address and the re-tifue differs of the Association, and "The Press" were accorded similar compliments before the Conference closed.

NATIONAL BEEKEEPERS' ASSN. OF N.Z.

An Organisation formed for the purpose of improving the conditions of the Bee-keepers of the Dominion, and the Honey Markets in particular.

Export and Local Development are the aims of the Executive, who are all commercial beekeepers.

In your own interests you cannot afford to remain outside the National.

Send your subscription to-day.

R. W. BRICKELL, Secretary-Treasurer.

50, Castle Street, Dunedin.



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