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The New Zealand Beekeepers' Journal.

JUNE 23rd, 1915.

ISSUED MONTHLY

FOR

THE NATIONAL BEE-KEEPERS ASSOCIATION OF N.Z.



PER ANNUM: 3/6 IN ADVANCE.



STONE, SON & CO., LTD., PRINTERS, DUNEDIN.

National Beekeepers' Association of New Zealand.

The object of the Association is the Improvement of the Beekeeping Industry and furthering the interests and the prosperity of the Beekeepers throughout the Dominion.

Membership is extended to any Beekeeper who is in accord with the aims and objects of the Association, on payment of a small fee.

DISTRICT ASSOCIATIONS AFFILIATED.

Waikato Beekeepers' Association. Hon. Sec., W. Hooper Teed, Waihou, Thames Valley.

Taranaki Beekeepers' Association. Hon. Sec., H. W. Warcup, Hawera.

Canterbury Beekeepers' Association. Hon. Sec., Miss Mackay, Middle Lincoln Road, Spreydon, Christchurch.

Pahiatua Beekeepers' Association. Hon. Sec., G. Bentley, Pahiatua.

Southland Beekeepers' Association. Hon. Sec., L. Gardiner, 119 Elles Road, Invercargill.

South Canterbury Beekeepers' Association. Hon. Sec., R. Lang, Geraldine.

OFFICE-BEARERS OF THE NATIONAL BEEKEEPERS' ASSOCIATION OF NEW ZEALAND.

President: Mr. J. S. Cotterell, Te Aroha.

Vice-President: Mr. J. Rentoul, Cheviot.

Executive: Messrs. A. C. Askew (Manakau), R. J. H. Nicholas (Hawera), W. F. Barker (Peel Forest), W. B. Bray (Banks Peninsula).

Secretary: Mr. R. W. Brickell, Dunedin.

A large membership will give the Executive increased funds with which to develop the local and foreign markets and push the export trade. Increased demand will raise the value of your honey crop. No. 12

Each The New Zealand Beekeeners Journal

The Official Organ of the National Beekeepers' Association of N.Z.

3/6 PER ANNUM

N.Z. BEEKEEPERS' ANNUAL CONFERENCE.

The Annual Conference of the National Beekeepers' Association opened at Wellington on Wednesday morning, the 2nd June in the Esperanto Hall. The President of the Association (Mr. Jas. Allen) occupied the chair, and there were present the Minister of Public Health (the Hon. R. Heaton Rhodes). who, in the absence of the Prime Minister, declared the Conference open, the Mayor of Wellington (Mr. J. P. Luke), Mr. T. W. Kirk (Director of Orchards and Apiaries Division), and Mr. H. G. Hill (of the Bristol and Dominions' Producers' Association).

The following delegates were present :- Messrs, Geo. Ward (Porirua), R. Stewart (Crookston), J. C. Hobbs (Hauwhaka), F. C. Barnes (Normanby), H. W. Gilling (Matapu), J. Ross (Foxton), Mrs. I. Palmer (Feilding), Miss Meek (Lower Hutt), Messrs. L. F. Robins (Temuka), W. E. Barker (Peel Forest). E. J. Pink (Ohan), J. Rentoul (Cheviot), E. G. Ward (Christchurch), W. H. Teed (Waihou), L. Bowman (Christchurch), C. J. Clayton (Peel Forest), H. W. Warcup (Hawera), C. A. Jacobsen (Little River), A. Ireland (Christchurch), Hugh Mc-Kay (Rockville), E. Simpson (Geraldine), C. A. Granger (Waihou), W. L. Bird (Manakau), A. Askew (Manakau), R. J. H. Nicholes (Hawera), A. H. Davis (Hawera), J. W. Brown (Normanby), S. C. Rhodes (Riwaka), J. Crist (Dannevirke), J. C. Cooper (Menzies Bay), Allan Bates (Kaponga), W. Parrant (Lower Hutt), R. W. Brickell (Dunedin).

ADDRESS BY MR. RHODES.

Mr. Rhodes, in declaring the Cc. erence open, said that Mr. Massey had asked him to express his good wishes to the Association, and to state that he (Mr. Massey) would give careful consideration to the recommendations of the Association. Continuing, Mr. Rhodes said that he was interested in the reports of Mr. Kirk, which showed that the industry was progressing in New Zealand. He learnt there were 11,200 beekeepers in New Zealand, representing 72,340 hives. The export industry was advancing, and the Government was pleased to give assistance through its graders. The well-being of the industry was largely due to the Honey Producers' Association, who had entered into an export contract for an amount up to 500 tons per annum.

With reference to the work of the Public Health Department, Mr. Rhodes said that samples of honey had been taken at grocers' shops by officers of the Department and submitted to the Dominion Analyst and other Government Analysts. The result went to show that the contention of expert beekeepers was quite correct in asserting that 26 parts per centum of water as allowed by the regulations under the Sale of Food and Drugs Act was too high. The officers of his Department were considering the results of analyses with a view to seeing what figures should be placed in an amending regulation. It was proposed that the figures should be 20 parts per centum, and he would be glad if the Conference would express an opinion about that proposed alteration. As soon as a decision was arrived at he would have an amending regulation put through. He added that the original regulation was in conformity with that in force in several States of Australia, and approximated that of the United States. Nevertheless, he was convinced from the data placed before him that it would be very unwise to allow for such a large proportion of water as the regulations provided for. So far the analyses showed that there was practically no adulteration of honey in the Dominion, either by the addition of water or other foreign substance.-(Applause.)

Mr. Luke also addressed the meeting, and said that he would have liked to have extended a eivie reception to the delegates. From the citizens he extended a hearty welcome to the members. He welcomed the work of the Association because it was another evidence of the varying nature of the industries

of the Dominion.

Mr. H. G. Hill, of the Bristol and Dominions' Producers' Association, also spoke on matters relating to organisation and the marketing of honey, urging on the members present the necessity of a strong organisation, and instancing the great progress made by the dairy and the fruit industry since they had organised. He also emphasised the necessity of placing the very best men available with a commercial training at the head of their organisation and their Honey Company.

A hearty vote of thanks was accorded Mr. Hill for his

stirring address.

Apologies and good wishes were received from F. K. Pope, Secretary of Agriculture, who stated that he would give every attention in his power to help forward the industry.

Mr. J. B. Cotterell (Vice-President) wrote: "To all my fellow-eraftamen attending the Conference I extend a hope that you may profit by meeting together, and in this connection I can say that in the past it has been both a help and inspiration to me to accomplish greater things in our chosen pursuit. Wishing every success to the Conference and a bumper crop of honey next season for all beekeepers."

Apologies were also received from Messrs. S. Hutchison, S. L. Luke, J. Irving, A. F. Elwell, R. H. Nelson and G. S. Tibble.

ANNUAL REPORT.

Your Executive have the known to report that the year closing May 31st has proved on on of the most important in the history of the beekeeping industry in New Zealand. Early in the year negotiations were opened up with Major Norton, the representative of the Bristol and Dominions Association, for the supply of large quantities of honey. Before the Major left the Dominion, your Executive were in possession of a firm offer made on behalf of his Company by which a large export contract was provided for at very satisfactory prices. Having thus conserved the interests of its members by making sure of the contract, the National Association had then to find some means of having it filled.

Being an unregistered Society, lacking the necessary equipment; it could not undertake the carrying out of the contract itself, and so arrangements were made by which it was handed over to the New Zealand Co-operative Honey Producers' Association, Limited, who undertook to fulfil the terms of the contract, and have been successful in securing such supplies of honey as will amount to not less than one hundred tons per year for several years to come.

The value of this export contract to the industry, more particularly in years of plenty, cannot be over-estimated, not only for its direct and intrinsic value, but from the fact that it will go far to prevent the glutting of the local markets.

As directed by the last Conference, the Executive undertook the publication of "The New Zealand Beekcepers' Journal," which has been entirely successful. The inauguration of a new Journal is generally a more or less costly proceeding, and the small debit balance against your Journal is an evidence that the fateful first year's existence has been safely surmounted, and the enterprise placed upon a satisfactory basis.

In regard to membership, we have suffered a slight decrease, indirectly due to unfavourable climatic conditions. The widespread failure of the honey crop, due to drought in the north and middle portions of the North Island, and cold, wet weather in the South Island, tended to discourage some apiarists, and as a consequence the membership of the National has slightly decreased. On the other hand, the National had the pleasure of receiving into the affiliation the Canterbury Beekeepers' Association and the South Canterbury Beekeepers' Association. There remains now only three distinct Associations outside the ranks of the National—anamely, Oamaru, Marl-borough, and Poverty Bay. An effort will be made during the coming season to induce these Associations to throw in their lot with the National, thus achieving the consolidation of the beekeeping industry throughout the Dominion.

A striking instance of the value of the National Beekeepers'. Association was shown some time ago, when the regulations controlling export were under consideration by the Government. It was not the intention of the Department that Timaru should be gazetted as a grading port, but upon the Executive of the National making strong representations to the proper authorities, the Department, on consideration of the same, agreed that Timaru should be included. The nett result of this effort to the South Canterbury beekeepers will be a saving of from 20/+ to 35/- per ton in railway freights alone.

The financial position of the National Beekeepers' Association is distinctly satisfactory, considering that the year was commenced with a debit balance of £20, and that for twelve months a Bee Journal has been successfully published.

On behalf of the Executive,

BALANCE SHEET OF THE NATIONAL BEEKEEPERS' ASSOCIATION,

for the year ending 31st May, 1915.

RECEIPTS.				PAYMENTS.			
f s. d.	£	8.	d.	spiking loss there to the		9.	
Cash in hand, 1914 0 6 5				Expenses 1914 Conference	6	18	0
Cash in hand, 1914 0 19 0				Executive Meeting, 1913 Secretary's Salary, 1913-14		10	0
	1	5	3	Secretary's Salary, 1914-15	15	0	ì
Members' Subs	51	11	3	Postages and Telegrams	21	5	9
Government Grant for Con-	20	0	0	Printing Journal and Con-	-		
ference Report			6	ference Report	73	8	9
Journal Subs Advertisements	13		0	Stationery and Sundries	4	16	6
Advertisements	. 10	**		- The state of the	_		_
				£1			0
				Cash in Bank	13	11	2
£	152	5	2	£1	52	5	2
Assets.				LIABILITIES.			-
21000100	£	8.	d.		£	5.	d.
Cash in hand			2			15	0
	7	10	0			10	- 0
	10			Secretary and Editor	34	0	0
Association Subs.—say Deficit	22	0	10				

Audited and found correct,

June 2nd, 1915.

F. C. BAINES, Auditor.

The President formally moved the adoption of the Report and Balance Sheet, which was adopted without discussion.

STATEMENT OF ACCOUNTS NATIONAL BEEKEEPERS' JOURNAL,

for the year ending June 30th, 1915.

Journal Subs Government Advertisemen	Grant.	to get		8. 17 0 0 1	6000	Printing Postages Editor Sandries		83 18 24 2	8. 9 0 0 0	d. 5000
Deficit					6 9					
September 2		1	127	9	3		£	127	9	

The balance sheet of the Journal was read and confirmed. Scenaria delegates spoke in highly complimentary terms of the Journal, and all expressed satisfaction that the National had been able to carry on the work.

After considerable discussion, it was resolved that no increase in price be made for this year. Mr. R. W. Brickell was re-appointed Editor for a further period of twelve months.

CONSIDERATION OF REMITS.

Mr. W. B. Bray was appointed Conference minute seeretary. It was resolved-"That all District Branches of the

National be asked to make their financial year end on or about

31st May, for the sake of uniformity." Resolved-"That the National Beekeepers' Association be

registered under the Unclassified Societies' Act," and the Executive were instructed to carry the resolution into effect. Consideration of notices of motion was proceeded with, and

Mr. I. Hopkins moved: "That a clause be added to the Constitution for a Defence Fund for legal purposes to be established and kept separate from the general income of the Association. and that a levy of 1s. per member, a pro rata percentage, should he set aside according to membership of Associations.'

After considerable discussion a committee was appointed to deal with the matter, and later the committee's recommendation, as follows, was adopted: "That the incoming Executive be recommended to seek information from the National Beekeepers' Association of America regarding their legal defence fund, and report a scheme to the next Conference, and in the meantime the Executive be empowered to take such steps as

considered necessary in the event of any case arising."

Mr. Hooper Teed moved: "That provided satisfactory arrangements can be made with the New Zealand Co-operative Honey Producers' Association, Ltd., to subsidise the National Association, members' fees shall be reduced to a nominal sum of 2s, 6d, per annum, and that Clause 3 in the present constitution relating to financial members shall be amended to bring them in conformity therewith." Mr. Teed pointed out that his was a provisional motion, depending on acceptance by the Honey Producers' Association.

After discussion Mr. Teed agreed to withdraw his motion,

with the idea of bringing it on at next Conference.

Mr. Jas. Allan (for the Southland Association) moved, and it was carried: "That this Association urge that the registration of apiaries be brought into force at the earliest possible moment.

Mr. Kirk said it was the intention to have that done. The war had upset things, but it was hoped that the regulations covering the matter would be gazetted in time for next year.

Mr. Allan also moved: "That a deputation wait on the General Manager of Railways and ask him to reconsider the question of railway freights on honey, pointing out that when the regulations were formed only small quantities were railed for comparatively short distances. Now tons are railed long distances to the grading stores for export, and the rate should be brought down more in conformity with the rate charged on other agricultural produce, more particularly butter."

The motion was carried, and Messrs. Jas. Allan, E. G. Ward, and L. F. Robins were appointed a deputation. They waited on Mr. Hiley, and reported: "That careful consideration would be given to the representations of the Conference."

A further motion from the Southland Association was put as follows: "That the Bluff be gazetted as a grading port for honey." This was carried after some discussion.

Mr. H. W. Gilling read a paper on

CO-OPERATIVE SELLING PROPOSITIONS.

Probably the biggest problem the commercial beekeeper, whose crop runs into tons, has to solve is the satisfactory disposal of his crop. He will probably he able to place it, put up in 56-lb, tins, either in the Dominion or on the English market at a price, but the price obtained is not satisfactory. This method of disposing of honey is also unsatisfactory for the simple reason that by selling in bulk we are putting into the hands of the grocer or merchant the power to build up a connection for retail packages of honey which must injure our craft. The grocer will not bottle it if he can buy it in bottles as cheap as he can put it up himself, and the fact that ine buys in bulk in any quantity is proof sufficient that we must be selling too cheap.

But a beekeeper may be putting all his honey in retail packages, and in this he is wise, for he is at least building up a connection for himself and advertising his honey as his honey. But even then he does not find his path as smooth as could be desired. He has to compete with his fellow beekeeper, and, neither of them being wealthy, it generally results in a cutting of prices. He of course feels wrath because of this, and at the next meeting of his Association he gets on his feet and becomes quite dramatic. The meeting, of course, is with him, and it is perhaps resolved that the attention of the delinquent shall be drawn to the fact that the Association agreed that the prices for 2-lb. tins should be so and so, and for 2-lb. glass jars so and so. They find, however, that the poor unfortunate was quite aware of this, but unfortunately he was hard pressed for eash and had to realise. He will promise that as far as he is concerned it shall not occur again if he can help it, but his action has had a tendency to lower the price. This sale will be quoted, and more than likely if this man's needs do not force him to repeat the performance some other poor unfortunate will take a turn. They have no intention of being disloyal one to the other, but fate, hard fate, is against them. Can no remedy be devised? Must these unsatisfactory conditions continue? I think not.

It has been suggested that the difficulty could be overcome by the beekeepers agreeing to all sell through the one agency at a price mutually agreed upon. While I have had no experience of this class of business, I would not expect much from it. Some of the beekeepers sooner or later would be in need of eash, with the result that the agent would be instructed to sell as soon as possible at the best price obtainable. You may, however, form a Co-operative Company to dispose of your retail packages on a commission basis, and if the Company is strong enough it may make advances on the honey placed in its hands for disposal. That would be a step forward, but methinks it is not the solution we are looking for. Difficulties would soon manifest themselves. One man will run away with the idea that paper pots are the thing, and so he puts tons upon tons in paper pots, puts them into the Company's hands to sell on his account, and obtains an advance from the Company. The Company, however, finds them difficult to sell, and the next season comes around with the goods still unsold or sold at a sacrifice to clear. Or with more than one line of similar packages to dispose of, the Company would be vexed with the question "Whose honey shall we sell first! Jones' was put into our hands first, and for that reason should have the precedence, but Smith is short of money, and we must sell his honey or give him an advance. Jones is all right, but he rather fears the market is going to be glutted, and wants his honey sold before prices drop." I do not think a Co-operative Company selling its shareholders' retail packages would have a very happy existence.

I think the only solution of the problem will be found in a Co-operative Company which is prepared to handle the whole of the honey produced by its shareholders putting the honey up in retail packages at bottling depots established at different points for the purpose, and placing the honey on the market under the Company's label, the Company paying an advance on receipt of the honey in bulk or as soon after as practicable, and the balance at the end of the Company's financial year. This should work out better for the shareholder than the Company selling his retail packages on a commission basis, as the Company, buying in large quantities, could obtain them much cheaper than the individual beekeepers, and, knowing the market better, would not be so liable to glut the market with any particular kind of package. No question of preference in precedence in the disposal of honey would crop up. New Zealand is geographically very favourably situated for putting such a scheme to the test. It should not be difficult for the beekeepers of New Zealand to agree to put such a scheme to the test, for have we not already a very good start along these lines? We have now a bottling depot in Bristol, where our honey is being liquified and put upon the market under the label of our Co-operative Company, the N.Z. Co-operative Honey Producers' Association, Ltd.; so it now only remains for us to apply the same principle to the local market. I am disposed to think that some would fain utilise the Co-operative Company to dispose only of their surplus. This system of co-operative selling can hardly be expected to meet with success. A Company that handles only its shareholders' surplus would surely have a very uncertain existence. One year prices would be good on the local market on account of its being depleted by heavy exports. The tendency the following year would be for each and every beekeeper to keep back a larger proportion of his crop for the local market, resulting in a glut and low prices. No, my friends, cease to concern yourselves about the disposal of your honey; put it all in the hands of your Co-operative Company for disposal in whatever way they think best. It will then be possible by a judicious use of the Press and otherwise to greatly increase the consumption of honey in New Zealand. and also to obtain much better prices than are now obtainable.

Before the institution of the co-operative system the dairy farmers thought they were doing very well when only getting 7d. per lb. for butter, but now 1/- per lb. for butter-fat is not considered a big price.

It is the universal experience that a wise application of the co-operative principle secures good results, and there is no reason why it should not follow in our experience. I think the day is not far distant when the individual beckeeper will find it difficult to sell his honey satisfactorily. More than one firm of merchants have already avowed their intention to confine their business to our Co-operative Company quite unsolicited.

The paper brought on a most interesting discussion, and at the close a hearty vote of thanks was accorded Mr. Gilling for his interesting and instructive paper.

GRADING DEMONSTRATION

A most interesting and instructive demonstration of grading for export was given by Mr. F. A. Jacobson, apiary instructor and grader for the Wellington and Taranaki Provinces. During the course of the demonstration, which was watched with the closest attention, Mr. Jacobson showed what each different item of the grade note was for, and why a given number of points was allotted for each.

At the close of the demonstration a general discussion took place, and a large number of questions were asked and answered to the apparent satisfaction of everyone,

The general conclusion was that, whilst the allottment of points and the methods of grading are not yet perfect, the Department is progressing on right lines. It was pointed out that, although grading has been optional, the standard of honey sent in to the grading depots this year is a vast improvement on that sent in when grading was first introduced. Beekeepers generally can congratulate themselves that they have in the Department an officer like Mr. T. W. Kirk, who, whilst jealous of the Department's grade stamp, is yet keenly alive to the individual necessities of growers.

EVENING SESSION.

An interesting and profitable evening was spent by the members of the Beekeepers' Conference in discussions on apiary management and appliances to use. The discussion on the question of what size hive to use brought out many interesting points, which mainly centred round the question of locality or district and the individual likes and dislikes of the operator. It seemed that most of the Taranaki producers preferred 12-frame hives on account of their larger capacity for winter storage. Questions of apiary management brought out many conflicting opinions, but everyone agreed that doing the right thing at the right time always ensured success. Mr. Allan (the President) gave a full description of the essential work required during the year to bring about the best results, which was highly appreciated, and endorsed by the old hands.

The following hints were given :-

It is better to pay five pounds' rent for a good out-apiary site than to get a bad one free of cost.

The success of a beekeeper is in the control of swarming. It cuts out unnecessary work. Don't work a hive every day. Give the bees a chance to do their work.

Feeding in the open air is sometimes quicker, but it is better to feed inside the hive, and use full combs of honey or syrup.

It is sometimes dangerous to use boiled honey.

Open-air feeding is good to keep bees going just before the honey flow. A syrup of one in four is the best.

Honey syrup excites the bees, and starts robbing much more quickly than a sugar syrup.

Just before a swarm is about to issue, take out a frame of brood, and the swarming tendency will be checked.

Don't give brood to a hive with an old queen; it is not worth while. Kill her, and give a young queen or a queen cell.

Don't feed boiled honey unless you are quite sure it is right. It must be of good quality, and avoid galvanised iron vessels and burning and ferment.

Rear queens from those hives which want to swarm early.

SECOND DAY

On resuming, Mr. F. A. Jacobsen read the following paper on

HOW TO IMPROVE THE GENERAL QUALITY OF OUR PRODUCE

The Dominion of New Zealand is a country particularly adapted to agriculture. Most of our produce is of a superior quality, and our first grades of honey compare favourably with the best produced in other countries. This paper briefly describes how to improve the general quality of almost the whole of our production by a method which gives very little extra trouble. Nature supplies the aroma and flavour which cannot be altered, but under the treatment recommended both seem to be improved. It is the grain, however, that disappears right out of sight, and the difference before and after treatment would probably mean the difference between the special and prime grade.

First of all we will take the cause of honey granulating with a sandy grain. It is this: Honey granulates upon standing because of the ability of its dextrose to assume a crystalline form much more readily than the levulose. The dextrose, then, frequently gathers together in small crystals before the levulose has time to form a similar condition. I deduct from this that if one could secure granulated levulose to mix with liquid honey the whole would form a solid much more rapidly and evenly.

Further, there are apparently two things which have an important bearing on crystallising—namely, atmospheric pressure and cold. A pressure of, say, 50 atmospheres would cause very rapid granulation, and a certain degree of cold would assist in this direction also.

Neither of these things are necessary for the purpose, however, and I have merely stated them to indicate outside influences.

Some of you are probably aware that on two occasions in the Journal of Agriculture I have recommended thoroughly stirring 10 lbs. of granulated honey into each half ton of liquid. The procedure is to mix the granulated honey with a quantity of the liquid until it becomes soft and pliable, then it will mix more readily with the larger quantity. If this is stirred for a quarter of an hour each day for three or four days it will then be in a liquid-granulated state, and should be tinned off before it sets too hard, which condition it will assume in a very few days. I have here with me a sample of honey treated in this way and a sample of the same honey untreated. I would like each one of you to examine these closely. The difference is clearly between a special and prime grade honey. The condition of the treated sample is excellent, and may be spread on bread without breaking it to pieces, which is another advantage.

If it is necessary to secure a finer grain in honey that has already granulated, it must be semi-liquified, and stirred in the same manner as mentioned for granulating the liquid.

If it is thoroughly re-liquified it will take a long time to erystallise a second time, and will then do so with a coarser grain than it originally had.

From improving the grain I will go on to eliminating the seum. In honey treated as I have described there is none: that is to say, the method of treating the grain answers a dual purpose, and gets rid of the seum also. I have come to the conclusion that it is absorbed in the rapidly thickening body of the honey. Recently I procured a quantity of what has up to the present been termed seum, and submitted it to Dr. McLaurin, the Government Analyst, for a report on its composition. If read as follows:—

Water			17.90
Dextrose			41.70
Levulose			 38.50
Sucrose			1.10
Dextrin			 0.16
Ash			0.14
Acid expres	sed as fe	ormie	 0.05
Undetermin	ed		 0.45
			100,00

On my own account I investigated by aid of the microscope the number of pollen grains per square inch contained in the setun, as it was reasonable to suppose it would hold a larger number than the honey by reason of it having risen to the surface. Such, however, was not the case, as I could find no evidence of a superior number than the honey below the secum contained.

This method of improving the quality is not only applicable to the honey producer, but applies in no less a sense to our Honey Company, who purchase from all sources in large and small quantities. I have no doubt that as our industry increases arrangements will be made to treat honey on these principles at the various depots throughout the Domninon.

GRADING OF HONEY.

Mr. A. Ireland read a paper of interest to honey-producers, entitled "Scum: What is it, and how can it be avoided?"

SCUM ON HONEY

There has been a good deal of discussion on what constitutes scum on honey and how far the graders are justified in penalising honey for the white scum that sometimes appears upon the surface.

There are two sorts of scum. First, there is scum composed of very small particles of the cappings or wax, dust, or other foreign substances that may have found their way into the honey; second, a froth or small air bubbles of honey, both of which rise to the surface. The first-mentioned should be penalised, as it is the result of filling the tins from the tanks too soon after extracting. I reckon that three days is a short enough time to leave the honey standing in the tank before filling tins from it. The second kind of scum mentioned is composed of pure honey, and if heated will resolve itself into a clear liquid honey. This to a certain extent, like the first, is the result of filling the tins too soon from the tank. As to how far it should be penalised by the graders is a more difficult question, because when the purchaser at the other end liquifies the honey for bottling it will all disappear. When the two kinds of scum are together it should certainly be penalised, because when melted, although the froth may disappear, the first-mentioned scum will not, but remains a blemish on the honey.

During this last season I took a pint of seum off the top of my tank after it had stood three days, and slowly heated; it. It was all reduced to liquid and pure honey with the exception of a very thin film left on the top, apparently composed of small particles of wax. Of course, I strain the honey through a fine strainer into the tank. Where no strainer is used, but the honey taken from the extractor directly into the tank, there would be a considerably larger film of wax particles, &c., than appeared in the above experiment.

While the subject of scum was under discussion at last Conference, someone mentioned that a solid block of honey taken from a tin of honey and cut would show streaks of scum in the body of it. Now I think that gentleman was under an error in supposing that the whiter in colour of certain parts of the block of honey was scum. I am of opinion that it is the result of a difference in the process of granulation of those parts. If they be examined they will appear to be drier-that is, they are less moist than the other and darker parts. A question arises here-and it is a difficult one for the grader to decide-that perhaps some of the white so-called seum may be this drier granulation and not seum at all, although penalised by the grader as such. Some liquids produce a scum when boiled, such as sugar, jam, etc. Such seum is composed of froth or air bubbles, and although in each case there may be no foreign substance in such scum, yet it is always condemned and removed. So in like manner should the seum from honey.

even although it he pure honey. I think that the National and arther Shelkesping Associations, who give instructions as to how long a time as howe the honey in the tank before building or filling the first from it, while the time too short. I have statiof the shoreses time as three days, but she to super can be left be better. The tank neglin always to have a close-desiring tid, 4M source, there always as a very small quantity of pullen in honey, and some or portings used at it will be in the section, as the greater are lighter than honey and would rise to the top with the with the

- the a farmer Conference I pure a paper on the riposing of homes surfaids of the hors, in which I advectored door marks in anotherms to shallow store because, as I said the presente in a deep tank would force all particles lighter than honey to the top to gravitation. The Editor of our Res Journal appositioned this is one of the Journals. One has only to itself the ten of provincian to one that this is correct. All beckeepers have noticed that the ripest honey Commonwelly the honorast always sinks to the hotton of the tack, and the unrigo (if any) always floats upon top. Now if proprietion arise is three was with honor, it will not in the same way with all other antistances that nee few to move as is a liquid. Now as some all arbeits over anyt in Englisher than homes. It is forward to the topby the heavier known being drawn to the horson. And so the force, acting are greater according to the death of the tank, so are the results pressler. This seems a self-resident statement. and so I hope greaver that deeper turks are horses than abattow
- the W. E. Starker also read a paper centried. "What is beginned. Frience and from Quality Henry "desting with the quanties of desires problem; the and that he throught they were all agreed that there was conceiling wrong with the present author of graphing, and more change would be transcare; form the grandment graphing of the Money Physician will be transcare; form the grandment grain of some R had bracked bis paper, to the same a shittenin sand as some and show the transcare continued and a some sand who they have send out of the contrary and absulte inverse shows it became and transcared and a section of the contrary and absult of the contrary and storing superior is that the proposition of the contrary and storing superior form them; it can appositely be greated betty high been send out of the securior of the superior of the contrary of commented the graph banders as larger such a first chart is an appositely a grand hours; as larger such a distinct contradity as desired when in pulsar a section of the adoption of the designment is the asymptotic leafs a second of the appropriate leafs a second.
 - "A him for you. Mr. A.stk." and a monitor
 - Mr Kith. Find the mency and we will appears them-
- Mr. W. B. Stroy coul a jugger on the name suitgreet, with the sites of betting the Bernettineau know whose suggest-count was distinct by the Bernettineau know whose migrare-count out sectomeral criticisms and he both that the forecomments of bands should areale not seconting to an autocoming doorse, but according to the desire of the majority of the provincess. The System at present had somity consumed from Departments

officials, who find no reports from Home as to what was a first or second quality home. They but also had not comments from Home on the spating. This year the standard of grading had been put up a seals, and whose there were two grades before were three new. He did not compute that the producers were avere middled should that.

Age on soldings.

HONEY CROP PROSPRCTS.

The Director of the Orchards, Gardons and Apiaries Division has received from the sparsy instructors the following counts concerning the honey area proposeds.

Auckland.—There is little further to report since last month. I have graded an additional seventy-access cases of homey for export, and there are a few more lots coming in: The local market or somewhat have, and prices have an opened tembers,—it. V. Westbrooks: June 3th, 1932.

Christelurelle.—There is very little to report, and the general conditions are shout the same as last month. There are one or two enquiries for celtion home; 3/6 to 6/c per dossuis offered for fred-classe by local merchanis. The export trade up to the present has one been no large as last essence, although a few nice fote are coming in such month to grade, and are home shopped as expeditionally as it is possible under the disorganized state of shipping.—It becomes. June 5th, 1910.

Dunctin. The market as bare of capplies. Small lote have been quickly absorbed at advanced prices. All available last scinon a honey loss been bought up. A few lines of pot honey, have come forward in exculont condition. Bulk honey, 1952, to lid, per lb., sections (searce), 7/6, per dozen,—E. A. Sarp., June Sud. 1915.

COMPLIMENTARY

"I may date that I am delighted with the Journal, and have passed on the extra copies received to those who are homoming interested in bees."

"I think that the paper should be supported by every person keeping less, and will do my less to get subscribers for it next year."

"I smeareds tops that the unables of subscribers will increase, and that the price of the dournal will be caused. For any part I would be proposed to pay 10. aubscription. Washingthe dournal very success.

"I am very pleased with the fournal, and manage to pick up a good dual of information."

These kindly consciouses are much appreciated by the Edwar-

The Grocery, Provision, Oil & Italian Warehouse Trades'
TWENTY-SECOND INTERNATIONAL EXHIBITION AND
MARKET.

Royal Agricultural Hall, London, N., Sept. 18th to 24th, 1915.

COLONIAL HONEY COMPETITION. (Entrance Fee, 2/6.)

At the request of several colonial friends, it has been decided to include the following Glasses for Honey and Wax amongst the competitions at this Exhibition. The objects are to introduce Colonial Honey to the British Isles, and the winning of a prize in either of these Classes by any competitor should enable him to sell the whole of his stock. The demand for Colonial Honey is annually increasing, and it is hoped that these competitions will give the industry considerable help.

Class 83-Twelve 1-lb. Jars of Extracted Granulated Honey.

1st Prize—Gold Medal and Diploma. 2nd Prize—Silver Medal and Diploma. Third Prize—Bronze Medal and Diploma.

Class 84—Beeswax (in three 1-lb. cakes). Judged for quality

of Wax only.

1st Prize—Silver Medal and Diploma.

2nd Prize-Bronze Medal and Diploma.

3rd Prize-Diploma,

Honey and Wax in the above two Classes to be addressed either to your High Commissioner, Agent-General, or Trade Commissioner in London, to reach him by September 11th, 1915.

Exhibits must be accompanied by a certificate from the Government Agricultural Department or the local Beekeepers' Association that half a ton of the Honey, or an equivalent of the Wax, a sample of which is sent to the Exhibition, was available for export.

These competitions are open to individual apiarists only,

and not to Associations and Co-operative Stores.

The official number labels for exhibits in these Classes will be supplied to either the High Commissioner, Agent-General, or Trade Commissioner in London.

SUBSCRIPTIONS.

The following subscriptions have been received for the year ending $\,$ June, $\,$ 1915 :—

Mr. J. H. Appleby, Miss H. Bernard, Brinkley Bros., Messrs. R. J. Bibby, F. J. Barwick, D. C. Bates, D. Campbell, W. Catternole, F. J. Comte, R. F. Eagle, M. L. Feist, J. Gresham, H. N. Goodman, A. Gedge, R. C. Hart, S. Hutchinson, J. C. Hobbs, W. Heseltine, F. A. Jacobsen, W. Knight, A. C. Kimber, T. Le Comte, W. E. Lippiatt, A. M. Meyenberg, A. J. May, H. B. Miller, D. McLean, A. Mathews, Alex. McDonald, D. McRae, J. Nofman, A. Olsen, K. Paton, Miss H. Papps, Mr. M. A. Pinny, W. Reed, F. Simpson, P. Sethig, G. E. Parker, H. W. Poynter, F. Sherwood, G. S. Tibble, J. Vaughan, Mrs. J. Wood, Messrs. M. E. Wright, H. R. Wilson,

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forthcoming.

The experience of house producers in the part theoretical New Zealand, as The experience of house producers in the part theoretical state of the particularly satisfactory. The honey has been dumped on to the Home marked, as the particularly satisfactory. The honey has been dumped on to the Home marked, as the particularly satisfactory. The honey has been dumped on the Home marked selection of the particular the house in the particular the particular new temperature of the particular new temperature new temper

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advantage of the sphedult fermi which are now before them.

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where the control of the

As it is anticipated that the shares will be fully applied for, it has been decided to give preference to applications from members of the National Beeters, Association. Those who are not yet members of this Organisation should become so without delay, and thus secure preference in their application for shares in the above Company.

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