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The New Zealand Beekeepers' Journal

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

Vor 6 No 6

7/6 Per ANNIM

National Beekeepers' Association of New Zealand.

The abject of the Association is the improvement of the Beckeeping Industry and furthering the Interests and presperity of the Beckeepers, throughout the Dominion, the Experiment of the Experi

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All matter for publication must be in the Editor's hands NOT LATER than the 20th of the month previous to publication. Address

FRED C. BAINES, Kati Kati, Bay of Plenty.

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EDITORIAL.

We hope this Journal will arrive sufficiently early for those who are waiting to see the programme of the Conference before deciding to attend, as we feel sure the interesting papers that are to be read will be sufficient to ensure their attendance. The authors of the various papers are all fully qualified men, and their re-

service to those who are privileged to hear them. Mr. T. E. Clark, who is to give a paper on "Working Methods," is wintering 800 colonies; so one can be sure "method" enters largely in the successful running of this number. Mr. J. Rentoul, whose paper is on "The Hygienic Requirements in the Extracting and Storage of Honey,' has a very extensive knowledge of his subject, and as Chairman of the H.P.A. has seen the necessity of honey being handled properly before sending it marks are bound to be of the very greatest from the apiary. In the subject of "The Bros. were at one time the largest commercial men in the country. "The Eradication of Foul Brood," by Mr. H. N. qualified to speak, as his district (the (lutha Valley) is one of the cleanest, and that largely due to Mr. Goodman's efforts. Mr. Robt, Gibb, who will give "Advanced Methods of Beekeeping," is one of the most advanced beekeepers in the country. and one that has "made good." The forming of nuclei is one of the most important items in successful beekeeping, and Mr. A. R. Bates, who will give "My man, and re-queens every year, so his experience in this direction should be valu able, Mr. Robert Stewart needs no introducing, and his paper on "Italianising an Apiary, and why I Prefer Italians' is a subject of the greatest interest, and our friend, whose queens or their progeny are probably in every apiary in the Dominion, long way to hear. The question of increasing the honey-yielding plants is one of the greatest importance, and Mr. E. G. the paper "Improving Branch Organisa-tion" Mr. L. Irwin has one that is after his own heart, as our friend is not only secretary of the Southland Branch, but to the great advantage of the National. Any suggestion to improve the parent The selling end of our industry will be enlarged upon by one of the officials of the H.P.A., and we hope all those who are not shareholders of that concern will listen attentively to what is said, and then decide that it is to their advantage to join up. Mr. Brickell's paper on "Pools and their Effect on the Producer!" will be an interesting one, seeing that in favour of the system. Other papers programme will attract a good number of come along and have a good time.

Recently, at the request of the begkeepers of the Dominion, the Government issued regulations prohibiting the imporof preventing the introduction of the Isle of Wight disease. Although at that time we all were under the wrong impression were thought to be acting against our own that beekeepers who see any outbreak of interests in getting the regulations passed, any disease of adult bees shall at once

Necessity for Keeping Better Bees," Mr. Be that as it may, we were very interested C. S. Huteninson has she of Hutchinson article headed "Prohibiting Importation of Bees and Queens," in which we find that "A committee was appointed to plan Goodman, is a subject on which he is well some measure to prevent the introduction of this disease into the United States and Canada, the committee being composed of Dr. S. B. Fracker, State Entomologist of Wisconsin; Prof. Geo. H. Rea, Pennsylvania State College, and C. B. Gooderman, Dominion Apiarist of Canada, A conference of entomologists and inspectors was called by Dr. Fracker on March 9th at the Bee Culture Laboratory at Washington, where it was decided inadvisable to apply any means of regulation as to the importation of bees and queens, and that nothing short of absolute prohibition of further importations would meet the situation." Then follows the report of the meeting, and among those present were Dr. L. O. Howard and Dr. C. L. Marlatt, chief and assistant chief of the U.S. Bureau of Entomology; Dr. E. F. Phillips, Government Apiarist; Prof. F. E. Millen, Apiary Instructor for Ontario, Canada; Prof. G. H. Rea, Pennsylvania Ward, who will speak on "A Wonderful State College; E. G. Carr, Apiary Instruc-Honey Plant," will give his experience tor of New Jersey; J. G. Saunders, President of the American Association of Economic Entomologists; Prof. N. E. Phillips, Massachussetts Agricultural College; and Dr. H. E. Ewing, Expert on Mites, of the U.S. Bureau of Entomology. ("Some names, my masters!'') Read on and see what they did! "The meeting decided to recommend that the U.S. Post Office Department shall at once prohibit the introduction of queen bees through the mails from all foreign countries except Canada, and that a Bill be introduced into Congress to prohibit the introduction of adult bees into the United States except for experimental and scientific purposes by the U.S. Department of Agriculture. Since there is no known Isle of Wight disease pected that the Dominion of Canada will establish the same safeguards to the beekeeping industry, it is planned not to establish any quarantines or prohibition against shipments of bees from and to Canada.' 'It was the opinion of those in attendance that the Isle of Wight disease is such a serious menace to beefull legislation in this matter, it is hoped that beekeepers throughout the Continent will co-operate to the fullest degree by making no attempts to introduce adult that Nosema Apis was the cause of the hees into the country. Any queen breeder disease, the principle of keeping this who introduced this disease into the dread disease out of the country was abso- country would be doing a great damage lutely sound. These regulations were to the beekeeping industry, and it would adversely criticised by certain beekeepers be a serious drawback to his business in the Dominion and in Australia, and we in the future." "The Committee urges send samples for examination and diagnosis to the Bureau of Entomology, Washington, D.C.

By the above reports it will be seen that the best specialists in the beekeeping industry and entomology in America are now trying to do what New Zealand did nearly two years ago. Bravo, New Zealand! The highest specialists in America have endorsed your action in this matter. and that being so, you can easily afford to ignore the small opposition that has been raised to your successful efforts. We congratulate the "National" in baving

In connection with the above, it will be seen by the article on the disease "Nosema Aris." which we have taken April, that our own Entemologist is studying the disease, and his request that sent him for examination and diagnosis should be availed of. We are indebted to the Department of Agriculture for the

We also are indebted to the Department for the loan of the block illustrating the honey house and part of the apiary at the Tanherenikan Repatriation Farm. where returned soldiers who are afflicted with tubercular diseases are taught bee keeping, horticulture, poultry farming, &c. "The trainces in this section, under a most enthusiastic instructor (Mr. W Booth), have acquitted themselves well. That is just the report we should expect

We notice that a firm in Auckland is offering for sale Australian honey, 1802. jars at 1/3 per jar. We wonder when was supplied. Know anything about it,

home from about the 25th May till about the middle of June. Should there be any delay in answering correspondence, the

Another convert to the claims of the mercial beckeeping has appeared in the person of Mr. W. J. Jordan, who has just that the flora of Westland is as hospitable as the inhabitants of that district. course, it rained whilst the visitor was there, but nevertheless the nectar was being gathered. The West Coast has seen of the Otira tunnel at the end of the year

Market Reports.

last report, and the Home trade enquiry is still good. There have been sales made 34/- per cwt,

at 48/- to 49/- per ewt. Buyers would give 28/- to 30/- c.i.f. Liverpool,

Beeswax.—The market remains quiet, and African and other descriptions are still offering at low prices. The value

Wellington,-The honey for this season for export or local consumption. The quantity is below the average, and the quality in many instances is not up to the usual high standard. This is due to

Christehurch and Dunedin.-There is nothing fresh to report. Extracting has are coming forward, and are meeting with ready sale. Prices are firm. Pat honey

In the January issue a Woodland cor respondent asks:-- 'Can honey, taken from foul-brood combs, be fed to bees if first boiled slowly at a simmering heat. I do not know where this advice comes from, but this brother beekeeper is taking grave chances by so doing. If he has the American type, such boiling will not kill the germs, as has been demonstrated by the Department at Washington, and told here on the convention floor at Los Angeles. American foul-brood germs resist the strongest acids, and also heat up to a high temperature. Dr. Phillips explained this, basing his advice upon laboratory tests made in Washington. Take no chance in feeding it back to your will cause a rush of apiarists. If they bees '-G. W. Bercaw, in Western Honey spread out there is room for all.

National Beekeepers' Association of New Zealand.

NINTH ANNUAL CONFERENCE

To be held at the Hall of the Y.M.C.A., Dunedin, May 31st, June 1st and 2nd, 1922.

Programme.

NOTE.—It is suggested that the Marning Sessions be occupied in the discussion of general business, and the afternoon for papers of interest.

MORNING SESSIONS, 10 to 12.30. AFTERNOON SESSIONS: 2 to 5 p.m.

FIRST DAY-WEDNESDAY, MAY 31st.

- 10 a.m .- Official Opening of Conference.
- 11 a.m.-President's Address.
- 11.15 a.m.—Secretary's Report and Balance Sheet.
- ance Sheet.

 11.30 a.m.—Amendments to Constitution.

Clause 6 reads.—Subscriptions to the Association are due and payable on June 1st in each year, and must be paid within two calendar months of that date. Members who do not resign by notice under their hand on or before July 31st in each year shall be deemed to be members of the Association for that year, and their subscriptions shall be due and psyable.

Proposed Amendment.—The dates in the above to be altered to April 1st and May 31st respectively.

Clause 10 reads:-Prior to the Annual Meeting at which they are to be elected, every Branch Association shall nominate a representative to serve on the Executive. This should consist of not more than seven members, but should not sufficient nominations be received, the quota shall be made good from those members attending the Annual Meeting. The officers of the Executive shall consist of a President, Vice-President, and Secretary-Treasurer; the last-named, however, if thought desirable, may be appointed by the Executive from out side the Association. Remainder of clause unaltered.

Proposed Amendment.—Prior to the Annual Meeting every Branch may nominate a representative to serve on the Executive, which shall consist of not more than six members, including President and Vice-President. From the nominations so made, the unesting shall elect four members. Should not sufficient nominations be received, the quota shall be made good from members attending the Annual Meeting. The Secretary Treasurer shall be a permanent officer, his appointment, remuneration, and removal being entirely in the hands of the Executive, subject to three months notice on either side. Remainder of clause unaltreed.

Clause 17 reads:—At the Annual or Special General Meetings, delegates may represent the District Branch and vote on the following terms:—On all questions of which notice of motion has been given, the delegate or delegates may exercise one vote for every financial member of their Branch.

Proposed Amendment.—At the Amnual or Special General Meetings, delegates may represent the Districdelegates may represent the Districlation of the Meeting of the Meeting Basis—Che vote for every financial member owning up to 25 colonies, and an extra vote for every olditional 25 or part thereof. The official telepower of the Branch. In the event of a Branch not being able to send one of its own members as delegate to the Annual or Special General of the National Association to act.—

(NOTE.—The delegate's certificate from a Branch must state—(a) The number of members who are financial; (b) the total number of hives owned by such members; (c) the number of votes to which the delegate is entitled.) The certificate to be signed by the Branch President and Secretary. Members of the National who

are not members of a Branch shall have the same voting powers-i.e.,one vote for every 25 colonies or part thereof, and such votes may be exercised by a duly authorised proxy,

The General Secretary will move:-That the voting power of each mem-ber be on the basis of the subscriptions paid to the National-i.e., 5/ subscription (1 to 15 hives), one vote; 10/- subscription (16 to 50 hives), two votes; 15/- subscription (51 to 100 hives), three votes; and one additional vote for every 5/- paid above 15/-; hon, members, one vote,

12.30,-Adjourn.

- 2 p.m.—"Improving Branch Organisa-tion."—Mr. L. IRWIN.
- 2.30 p.m .- "A Wonderful Honey Plant." -Mr. E. G. WARD.
 - Thoughts. ''-Mr. BASIL " Random HOWARD.
- 3 p.m .- "My System of Making Nuclei."-Mr. A. R. BATES
- 3.30 p.m.—"Working Methods."—Mr. T. 2 p.m.—"Advanced Methods of Beekeeping."—Mr. ROBT. GIBB, 4 p.m .- "Hygienic Requirements in the
- Extracting and Storing of Houey." Mr. J. RENTOUL.
- 4.30 p.m .- "Eradication of Foul Brood." -Mr. H. N. GOODMAN.
- 5 p.m .- Adjourn.
- 7 p.m .- Open Meeting for Informal Dis cussion, exhibition of appliances, &c.
- 10 p.m.-Adjourn.

SECOND DAY-THURSDAY, JUNE 1st.

- 10 a.m.-Branch Remits.
 - West Coast-(1) That it be a recommendation to the Government that the maximum penalty for breaches of the Apiaries Act be increased to £50.
 - (2) That the Conference use its power to urge the appointment of a permanent apiary instructor for the West Coast, Nelson and Marlborough Districts.
 - (3) That the West Coast Branch strongly disapproves of the Conference being held in the north of New Zealand one year and the extreme south the following year, and suggests that the Conference be held in Christchurch and Wellington alternately
 - (4) That the Conference consider the matter of drawing up rules and regulations and registering the National under the Friendly Societies' Act.

Rangiora Branch-

(1) That the Department of Agriculture be asked to give a receipt for all apiary registrations, and would sugnal, and thus save the Department mother of invention' is applicable.

- posting individual receipts. This would provide some small financial return towards the Journal expenses.
- (2) That this Branch condemns any idea of a tax on apiaries.
- (3) That the Department of Agriculture be requested to consider the advisability of again allowing Branches to nominate men as being suitable for apiary inspectors.
- (4) That the Conference consider ways and means of improving the financial returns to the honey producer of the South Island, so as to save the heavy expense of sending crops to the North Island to be blended, and then sent back to the local markets, resulting in a loss to honey producers of about 11/2d. per lb. for transit expenses.
- "In Defence of Registration Apiaries.''-Mr. W. E. BARKER.
- 11.30 a.m.-"The New Grading Regula-tions."-Mr. E. A. EARP. 12 30 -Adjourn. Photo of visitors, if
- ing. '-Mr. ROBT, GIBB
- 2.30 p.m.-" 'Italianising an Apiary, and why I Prefer Italians,' '-Mr. ROBT.
 - STEWART. p.m .- "Pools v. Co-operation." -- Mr. R. W. BRICKELL
- 3.30 p.m .- "The N.Z. Honey Producers" Association and the Industry. ' !p.m.-"The Necessity for Keeping Better Bees, ''-Mr. R. S. HUTCHIN-
- p.m.-"My System of Treating Diseased Hives. '-Mr. C. J. CLAY-
- 5 p.m.-Adjourn.

SON.

THIRD DAY-FRIDAY, JUNE 2nd.

- 10 a.m.-Unfinished Business.
- 11 a.m.-Election of Officers.
- 12 .- Closing of Conference.

NOTE .- The time given for the various items is only estimated, and the order of the papers to be read may possibly require alteration.

The use of solder for fixing "press in" lids is no longer necessary. A tool designed by Mr. W. J. Jordan, of the H.P.A., has been taken into general use at the grading stores, which will save the Association a considerable sum, as well as obviating the danger of the spirits of salts used in soldering of rusting the tin. The tool is a sort of pliers, which expand the lower edge of the press-in lid, and in no way affecting its air-tightness. Probably this will solve the lid problem, as the screw-lids were not quite a success, as they often had to be torn off if the side of the cap got gest that the registrations be acknow- dented, or the case dropped the wrong side ledged in the N.Z. Beekeepers' Jour- up. Again the adage "Necessity is the

Canterbury Tales.

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By E. G. WARD.

A feeling of disappointment came over A recting of disappointment came over me on reading in last issue of the Journal that the usual social evening was to be omitted this year from the Conference programme. This function has been such an unqualified success since its inauguration that I would suggest the desirability of taking the feeling of the visitors on the first day as to whether to hold it or not, rather than take it for granted that a visit to the show would be more appre-

appliances, and how many of the patentees have wished they had their money back in their pockets? I feel doubtful whether Mr. Franke's invention will be a commercial success, but congratulate him for his efforts to deal with a difficult problem. I was discussing this question of thick honey with a Canterbury beckeeper, who told me he had about four tons of it this season. If Mr. Franke's invention will solve the difficulty and save the combs, he has performed a signal service to the industry. An ocular demonstration would be worth a journey to Dunedin to anyone troubled with thick honey, to say nothing of the natural attractions of the city.

I was much interested in Mr. Pearmain's article on nectar-bearing flowers. I think most authorities are agreed that as a commercial proposition it does not pay to plant solely for bees. Mr. Root, I think, says there is one exception, and that is sweet clover. Some of the early writers on bee-culture (Henry Alley for one, I think) advocated every beekceper carrying some sweet clover seed (Bokhara) in his pocket, and scattering it in waste places. I have recently planted about one hundred young ribbon-wood trees at the back of my apiary, as I have been told it is a good nectar yielder; and although I do not expect great things from it. I think it well worth while for every beekeeper to do his best to increase the honey yielding flora of his district.

I visited my apiary about ten days ago and threshed my Hubam clover. It had lain on the ground about a fortnight after eutting, and did not yield so much seed as I expected. I got out all I could, and have stacked the hay, and will try again have stacked the hay, and will by again in a month or six weeks time. I made a scarifier from a description I saw in "Gleanings," and have secured a nice bright sample of seed after riddling and using considerable lung power to get rid of husks and dust. A neighbour is going to sow about four acres next spring, and I will have all the ground I can spare round the apiary cultivated for the same purpose.

Mr. Hankinson's experience in giving chilled brood to strong colonies to be cleaned up supplies food for anxious Before feeling convinced, I thought, should like more corroborative evidence, Is he quite sure the brood he gave was chilled brood? I suggest it might have been frames of foul-brood which he mistook for chilled. The books tell us that foul-brood is caused by an organism called bacillus larve, and that putrefaction is caused by quite a different process, Here is a chance for some of our scientifically trained men to chip in and put us on the right track. I am not going to get into deep water, but would welcome any information which would help to "clear the air.'' One at a time, please!

When I read such effusions as are con-I wonder how many patents have been tained in the attached clippings, I wonder I wonder now many parents taken out in connection with beekeeping if all industries are subject to the same sort of distortion:-

BLACK HONEY.

There are certain parts of the world where black honey, green honey, and red honey are not unknown. There lives in Brazil a wasp which produces red honey, which, although extremely sweet, is regarded as poisonous. The black variety is sour and disagreeable to the taste. course, honey varies in colour and flavour with the breed of bee producing it, but flowers also have some effect on the little worker. For instance, wild bees make their honey out of the rhododendron, wild azalea, and "mountain laurel," but this honey has an irritating and narcotic effect upon people, and is not, of course, in popular use,-Christchurch Star, 6/5/22.

BEES AS NOXIOUS ANIMALS. A COUNCIL PUT RIGHT.

A Press Association cable from Sydney, a Fress Association cable from Sydney, dated May 3rd, stated that the Minister of Labour (Mr. E. H. Farrer) had an-nounced that the Parkes Council had declared bees to be noxious animals. on the advice of the Crown coincitor, he notified the Council that there was no power to declare insects noxious.

No wonder somebody wrote:- "Fools rush in where angels fear to tread."

District Reports.

TARANAKI.

We have had some really nice weather lately-just about three months too late!

Owing to the poor season most beemen have finished up their outside work, and are now preparing and planning for next season, or taking on winter jobs at other occupations to help keep the wolf away. I have read a good deal about the outbreak of paralysis among bees in this district, but I think it is greatly exaggorated. As far as my own stocks are concerned, I have only had one colony dwindle to any extent with it, and have not found it any worse than usual. Generally speaking, I have only met one aplarist who has found it more serious than usual.

With regard to Mr. Hankinson's experience of foul-brood cropping up after giving chilled brood to the bees to clean up, I think, from personal experience, it is highly improbable that such was the cause.

I have occasionally put dead brood in colonies from different causes without any ill-effects, as long as the colony was strong.

Last spring I had about ten frames of brood cooked through moving a very strong colony on a hot day without sufficient ventilation, and I split their brood up among quite a few colonies, and it did no harm.

Okaiawa, 8/5/22. H. R. PENNY.

WEST COAST.

We have circularised the whole of the beekeepers in the district with the hopes of increasing our membership, and our Branch efforts for the betterment of the beekeeping industry in this locality are evidenced by the following programme which we are offering to all interested:—

April 8-General Business.

April 22-Successful Wintering.

May 6-Commercial Beekeeping and Honey Production,

May 20-Advantages of the Ten-frame Hive.

June 3-The N.B.K.A. and H.P.A. June 17-Hive Construction,

July 1—Feeders, and Management of Feeding.

July 15-Organisation of the Honey Industry.

July 29-Real Apiary Management.

August 12—Beckeeping as an Occupation for Women.

August 26—Foul-brood, Its Cause and

Treatment.
Sept. 9—Bee Production; Spring Manage

ment.

Sept. 23—Out-Apiary Management. Oct. 7—Ventilation.

Oct. 21-Colony Control; Prevention of Swarms.

Nov. 4—Frames, Assembling, Wiring, and Electric Embedding Demonstration. Nov. 18—Preparing Stocks for the Honey Flow.

Dec. 2-Queen Rearing.

Dec. 16-Artificial Increase.

1923. Jan. 13—Queens and Introducing. Feb. 10—Extracting. Marketing Honey.

March 10-Annual General Meeting. E. AIREY, Hon. Sec.

[That's a very fine programme, you West Coasters. You may have a damp elimate, but it evidently does not damp your enthusiasm. We hope you will have another successful year.—Ed.]

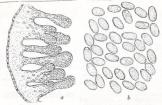
The Nosema Disease of Bees.

By R. WATERS, Biological Laboratory, Wellington,

The stomach of the bee has an internal cellular liming of what are known as epitabilial cells. These cells are sometimes tenanted by minute ovoid booties, the spores of an organism named Nosema Apis Zan. The organism is of the simplest kind, consisting as it does of but a single cell, and is therefore grouped with the lowest animal forms—the Protons. Demmark, Germany, Switzerland, Canada, the United States and Australia. Now it is to be recorded as present in New Zealand.

Nosema Apis is a recognised parasite—it lives at the expense of the bee. As to the injury it inflicts, this is a matter upon which there has been much divergence of In 1912, for instance, Grahamopinion. Smith, Fantham and Porter, in view of their accumulated evidence, stated that "the writers consider themselves justified in taking the view that Nosema Apis is the causative agent in most outbreaks of disease in which the Isle of Wight symp-toms are present." In 1919 White wrote: "For the present the American beckeeper should bear in mind that where Nosema disease is given as the diagnosis, a condition having the destructiveness described for the Isle of Wight disease is not meant." Finally, Rennie (1921) announced the occurrence of a parasitic mite, Tarsonemus woodi, in the respiratory passages of the bee. On abundant evidence he believed this to be the cause of Isle of Wight disease.

In New Zealand we have had no epidemic comparable to the destructive Islor O'Wight disease. We have recently discovered the presence of Nosema Apis, but it is incredible that this organism is of recent rectly have Nosema Apis, has not divertible to the season of the Nosema Apis which was the thought of the things of the property of the Nosema Apis when the thought of the Nosema Apis when the Nosema Apis w



NOSEMA APIS.

(a.) Transverse section of portion of a bee's stomach, showing the internal lining of club-shaped epithelial cells packed with the spores of Nosema Apis; highly magnified. (b.) Spores greatly enlarged, showing circular vacuoles. Drawing by E. H. Atkinson.

found to be packed with spores. Minor infection among the Te Puke bees may have gone undetected. The writer will be pleased to examine

any bees for the presence of the Nosema organism. Specimens should be sentpreferably alive—addressed care of the Biological Laboratory, 71 Fairlie Terrace, Wellington. An account of any observed symptoms should accompany the specimens. Next spring may afford an opportunity of associating the symptoms with the para-site, for then the effects of spring dwindling and certain other obscure bee troubles may become more noticeable.

Regarding the symptoms of Nosema disease, White says that weakness, especially in the spring of the year, should

So far the parasite has been sought and cause a suspicion that the disease is prefound in but two places—Auckland and sent; further, that this suspicion is Te Puke. The stomachs of four hundred strengthened if in such a colony the Auckland bees have been examined. Of brood in general is normal; if the adult these ten showed traces of the spores, one bees are not noticeably different in outabounded with them, and one showed a ward appearance or behaviour from bees fair number of the vegetative form of the of healthy colonies; if the queen is pre-organism. A naked-eye examination of sent; and if stores are abundant. His thirty-five stomachs at Te Puke showed recommendations show that bees sent for only one that looked suspicious. This examination should be workers from the was brought to Auckland, where it was field-pollen, water, or honey carriers. Next to field-bees those about the entrance of the hives should be selected-ten or more per colony. The contamination by excrement and otherwise of the watersupply, and the robbing of weakened and diseased colonies, are considered to be the main means of infection.

It will be noted that the present tendency is to abandon the idea that Nosema apis is the cause of the Isle of Wight disease, and to view the disease arising from the Nosema parasite as of minor importance. New Zealand experience certainly suggests such a view. Nevertheless, we should not neglect this organism until our local knowledge of its effects shall have justified us in doing so.

N.Z. Journal of Agriculture,

Re-Queening and Queen Introduction.

By A. H. BOWEN.

Bee stocks, in their natural condition, ensure young queens each season by casting one or more swarms each. Honey production requires that, the swarming impulse shall be restricted in order to maintain a large working force during the summer months.

If bees are thus deprived of the neces-The foundation of successful beekeeping sity for swarming, they must be supplied undoubtedly lies in keeping good stock with young queens at periodic intervals in headed by young prolific tueens. No matter order to keep the strength of the colony how good the hive may be, or how enthusi- from dwindling, and avoid the evils which astic the owner, it is essential for the bees generally follow it. A queen may prove to be strong in numbers and of a thrifty unsatisfactory, and require replacement honey-gathering strain if the best is to be for several reasons. She may be a worthobtained from the pursuit of bee'ceping, less drone breeder in the spring, or she

thus failing to maintain the large sheet reveals. nonulation that is needed for petting a population that is not

oneopless should be supplied with queens sprittl by £627. queenies should be supplied with queens oncenless, stocks will, during a honey flow lassened number of workers renders them liable to be robbed. Little or no work is over done in supers by bees in a queenless condition

Which is the best time?

Queens may be introduced with comparative safety any time from the end of April (October for New Zealand), and when May (November) is in supplies of queens are usually plentiful. In the dis-tricts where the honey flow is late, it is sometimes-when increase is desiredpossible to sub-divide colonies during the latter part of May (November), introducing young queens to build up the divisions as strongly as possible before the honey flow commences.

All things considered, the termination of the honey flow provides the best time for requeening failing queens, when most, if not all, of the supers have been re-

It occasionally happens that stocks, after the flow, require strengthening as well as re-queening to enable them to sur-vive the winter. To meet such cases, it is an excellent plan to take several threecomb nuclei from colonies that can spare the bees. These should be given queens, and virgins will be found most useful for running into these small nuclei. Frequently, by the time that they are required the nuclei will have grown to the size of small stocks, and are most valuable with little brood and a scarcity of foragers. young bees to any colony in the autumn of the exp is one of the best means of making sure is founded. of its survival of the winter.-British Bee Journal

N.Z. Co-op. Honey Producers' Association, Ltd.

We have received a copy of the Eighth Annual Report and Balance-Sheet of the above Association, to be presented at the annual general meeting on May 30th.

In common with most balance-sheets one peruses these days, the H.P.A. does not make the showing we could wish, and so far as the actual returns paid to suppliers the recent change of management will be quires fecundation by Drones?"

may be unprolific. Her prolificness is instrumental in keeping down the very likely to be reduced after the second seathery expenses that the present balance-

It is pleasant to notice that the number of shareholders has increased by 52. the During the active season stocks found subscribed capital by £876, and the paid-up

New Observations on the Natural History of Bees.

By EDANCIS HUBER.

(Published in 1808.)

(Continued from last issue.)

In terminating the confutation of Mr. Debraw's opinion, I have only to explain what led him into error; and that was, his using queens whose history he was unacquainted with from their origin. When he observed that the eggs produced by a queen, confined along with males, were fertile, he thence concluded that they had been bedewed by the prolific fluid in the cells; but, to render his conclusion just he should first have ascertained that the female never had copulated, and this he neglected. The truth is, that, without knowing it, he had used in his experiments a queen after she had commerce with the male. Had he taken a virgin queen the moment she came from the royal cell, and confined her in his vessels along with drones, the result would have been orposite: for even amidst a seraglio of males. this young queen would never have laid, as I shall afterwards prove.

The Lusatian observers, and M. Hattorf for bringing up to full strength colonies in particular, thought the queen was fecundated by herself, without concourse with The addition of a large proportion of the males. I shall here give an abstract of the experiment on which this opinion

> M. Hattorf took a queen whose virginity he could not doubt. He excluded all the males of the large and likewise of the small species, and in several days he found both eggs and worms. He asserts that there were no drones in the hive during the course of the experiment; but, although they were absent, the oneen laid eggs from which worms proceeded; whence he considers that she is impregnated by herself.

> Reflecting on this experiment, I did not find it sufficiently accurate. Males pass with great facility from hive to hive, and M, Hattorf took no precaution that none should be introduced into his. He says indeed, there was no male, but is silent

[&]quot;Vide in M. Schirach's History of Bees, are concerned, there is room for consider a memoir by M. Hattorf, entitled "Physiable improvement. We can only hope that cal Researches whether the Queen Bee re-

a small one might have escaped his vigiview to clear up the doubt, I resolved to cribed by him, and without greater care or

I put a virgin queen into a hive from been left at perfect liberty. Several days the same result as M. Hatterf obtained! But before deducing the same consequence that no male had entered the hive. Thus, examine each separately. By this opera-Therefore, to render the experiment decisive, not only was it requisite to remove duced, which the German suturalist had

which the whole males were carefully rethe smallest male. Matters continued thus

Therefore as a queen, rigorously sepa rated from all commerce with the male, remains sterile, it is evident she cannot impregnate herself, and that M. Hattorf's

Hitherto, by endeavouring to confute or who had preceded me, by new experiments, I acquired the knowledge of new facts, but these were apparently so contradictor, as to render the solution of the problem still more difficult. While examining Mr. Debraw's hypothesis, I confined a queen in a hive, from which all the drones were tile. When considering the opinion of M. Hattorf on the contrary, I put a queen, of whose virginity I was perfectly satisfied, in the same situation, she remained sterile.

Embarrassed by so many difficulties, I

respecting the means he adopted to prove and which had perhaps been impregnated respecting to the fact. And although be might be satistically unknown to me. Impressed with this field of no large drone being present, still idea, I undertook a new method of observation, not on queens fortuitously taken in a virgin state, and whose history I knew

From a very great number of hives I rethen divided into two classes. From the the entrance, so narrow that no drone could pass, but large enough for the free passage of the common bees. In the bives belonging to them, and even introduced more; and to prevent them from escaping, a glass tube, also too parrow for the males.

For more than a month I carefully watched this experiment, made on a large scale; but, much to my surprise, all the proved that queens confined in a hive would continue barren though amidst a seraglio of males.

This result induced me to suspect that the females could not be fecundated in ing the approaches of the male. To ascertain the fact was easy by a direct experiment; and as the point is important, I shall relate in detail what was done by my secretary and myself on the 29th June,

Aware that in summer the males usually leave the hive at the warmest times of that if the queens were also obliged to go out for impregnation instinct would induce them to do so at the same time as the males

At eleven in the forenoon, we placed sun had shone from his rising; the air leave the bives. We then enlarged the serve, and paid great attention to the appeared, and immediately took flight. Soon afterwards the young queen appeared at the entrance; at first she did not fly, but during a little time traversed the board, brushing her belly with her hind legs; neither workers nor males paid any attention to her. At last she took flight. When several feet from the hive she returned, and approached it as if to examine was on the point of abandoning the sub. the place of her departure, perhaps judgjet of my researches, when at length ing this precaution necessary to recognise on more attentive reflection. I thought it; she then flow away, describing horithese contradictions might arise from ex-zontal circles twelve or fifteen feel above periments made indifferently on virgin the earth. We contracted the entrance of queens, and on those with whose bistory the lave that she night not return un-I was not acquainted from the origin, observed, and placed ourselves in the our observations, and rapidly rose out of queen returned to the entrance of a manitime Having found no external appear and of foundation we allowed her to enter In a quarter of an hour she reappeared, and, after brushing herself as before took flight. examine the hive, she rose so high that absence was much longer than the firstcame back. We then found her in a state very different from that in which she was after her first excursion. The serval organs were distended by a white sembling the fluid in the vessels of the male: completely similar to it indeed in colour and consistence

But more evidence than mere resemblance being requisite to establish that the of the males, we allowed this queen to enter the hive, and confined her there. In two days we found her belly swollen: and she had already laid near an handred eggs in the worker's cells.

To confirm our discovery, we made same success. I shall continue to tran

On the second of July, the weather being very fine, numbers of males left the hives. We set at liberty an unimpregnated young queen, eleven days old, whose hive had quickly left the hive, she returned to examine it, and then rose out of sight. In a few minutes she returned, without a quarter of an hour she departed again. but her flight was so rapid that we could sense continued thirty minutes. On her

centre of the circles described in her entern the last ring of the body was open, and the sexual organs full of the whitish substance already mentioned. Silve west then confined in the hire from which all the males were excluded. In two days we found her impregnated.

> These observations at leasth demonstrate why M. Hatterf obtained results so different from ours. His queens, though fited by their liberty to unite with the males. We, on the contrary, have surthe precautions for confining the males to from departing to seek that fecundation without which they could not obtain

single impregnation; however, we have remarked some essential peculiarities in the fecundity of those unimpregnated until the twentieth day of their existence: but Though neither my assistant nor myself have witnessed the copulation of a queen which has just been commenced, no doubt of it can remain, nor can the necessity of copulation to effect imprognation be dismade with every possible precaution, apthem; the departure of these queens from dence of impregnation with which they return, are proofs against which no objec-

female at the very moment of copulation. Naturalists have always been extremely since they fulfil no function. But we now begin to discern the object of Nature in multiplying them to such an extent. As fecundation cannot be accomplished within, and as the queen is obliged to traverse site the males should be numerous, that I consider that a candid avowal of my she may have the chance of meeting some errors is doing the reader service. This one of them. Were only two or three in each is an additional proof to so many others, hive, there would be little probability of of the absolute necessity that an observer their departure at the same instant with should repeat all his experiments a thou- the queen, or that they would meet in

[&]quot;It will afterwards appear that what we took for the generative fluid was the tion in the body of the female. This discovery we owe to a circumstance that of the queen, and passing directly to the experiments that prove she carries away the genital organs; but in such observations which are both new and delicate, seeing facts as they really exist. | would thus remain sterile.

But why has Nature prohibited copulation within the hives? This is a secret still unknown to us. It is possible, however, that some favourable circumstance may enable us to penetrate it in the course of our observations. Various conjectures may be formed; but at this day we require facts, and reject gratuitous suppositions. It should be remembered that bees do not form the sole republic among insects presenting a similar phenomenon; female ants are also obliged to leave the ant-hills previous to fecundation."

I cannot request, Sir, that you will communicate those reflections which your genius will excite concerning the facts I have related. This is a favour to which I am not yet entitled. But as new experiments will unquestionably occur to you, whether on the impregnation of the queen or on other points, may I solicit you to suggest them? They shall be executed with all possible care; and I shall esteem this mark of friendship and interest as the most flattering encouragement that the continuance of my labours can receive. Pregny, 13th August, 1789,

LETTER FROM M. BONNET TO M. HUBER.

You have most agreeably surprised me, Sir, with your interesting discovery of the impregnation of the queen bee. a fortunate idea that she left the hive to be fecundated; and your method of ascertaining the fact was extremely judicious, and well adapted to the object in view.

impregnation the females return to the ant-hills to deposit their eggs. "Con-templation de la Nature," Part II., chap. 22, note 1. It would be necessary to seize the instant when the drone unites with the female. But how remote from the power of the observer are the means of ascertaining a copulation in the air. If you have satisfactory evidence that the is the same with that of the male, it is more than mere presumption in favour of copulation. Perhaps it may be necessary that the male should seize the female under the belly, which cannot easily be done but in the air. The large opening at the extremity of the queen, which you have observed in so particular a condition. seems to correspond to the singular size of the sexual parts of the male.

You wish, my dear Sir, that I should suggest some new experiments on these industrious republicans. In doing so, I industrious republicans. In doing so, 1 shall take the greater pleasure and interest, as I know to what extent you possess the valuable art of combining ideas, and of deducing from this combina-

tion results adapted to the discovery of new facts. A few at this moment occur to me.

It may be proper to attempt the artificial fecundation of a virgin queen by introducing a little of the male's prolific fluid with a pencil, and at the same time observing every precaution to avoid error. Artificial fecundation, you are aware, has already succeeded with more animals than one

To ascertain that the queen, which has left the hive for impregnation, is the same that returns to deposit her eggs, you will find it necessary to colour the thorax with some varnish that resists humidity. will also be proper to paint the thorax of a considerable number of workers in order to discover the duration of their life. This is a more secure method than slight mutilations.

That the worm may be hatched, the egg must be fixed almost vertically by one end near the bottom of the cells. true that it is unproductive unless when fixed in this manner? I cannot determine the fact; and therefore leave it to the decision of experiment.

I formerly mentioned to you that I had long doubted the real nature of the small ovular substances deposited by queens in the cells, and my inclination to suppose It was hive to fa seem dicious, be expedient to watch them with the uniform to expend a favor my suspicions. It would therefore the expedient to watch them with the utmost assiduity, from the instant of produc-Let me remind you that male and female tion until the period of exclusion. If ants copulate in the air; and that after the integument bursts, there can be no doubt that these minute substances are "Con- real eggs.

I return to the mode of operating copulation. The height that the queen and the males rise to in the air prevents us from seeing what passes between them. On this account the hive should be put into an apartment with a very lofty ceiling. M. de Reaumur's experiment of confining fluid bedewing the last rings of the female a queen with several males in a glass vessel merits repetition; and if instead of a vessel, a glass tube, some inches in dia-meter and several feet long, were used, perhaps something satisfactory might be discovered.

You have had the fortune to observe the small queens mentioned by the Abbé Needham, but which he never saw. It will be of great importance to dissect them for the purpose of finding their ovaries. When M. Riem informed me that he had confined three hundred workers, along with a comb containing no eggs, and afterwards found hundreds in it, I strongly recommended that he should dissect the workers. He did so, and informed me that eggs were discovered in three, Probably without being aware of it, he has dissected The males and females of ants are small queens. As small drones exist, it duced also, and undoubtedly by the same external causes,

(To be continued.)

winged insects; the former perish some time after their amours, and the females lose their wings a certain period after impregnation.-T.

A Prophet Hath no Honour in his own Country.

While this might not be wholly applied to "Imperial Bee" honey, there have been complaints from different districts that it is not like the honey supplied by some neighbour who keeps a bee. But from the far ends of the earth come its praises.

A storekeeper in Dawson City, Klon-dyke, writes that he had sampled some, and found it an excellent honey. Could the H.P.A. send him a few cases? And from far Cashmere a lady writes to a they got some H.P.A. honey, and could get no other like it. Could he send her some more from New Zealand? It is good to see ourselves as others see us.

Correspondence.

[The publication of any letter does not necessarily imply our agreement with the subject matter, and we do not hold ourselves responsible for the opinions expressed by correspondents.]

(TO THE EDITOR.)

Sir,-May I take Mr. E. G. Ward's re-marks on "The Honey Industry in New Zealand" as a text on which to write a short resumé of the work that the Honey Producers' Association has done since its inception some eight years ago. In this connection also I would refer to the article copied from the New Zealand Herald 20th the Apiaries Act. very small to what is produced now, the Branch in the South Island. prices offering were quite unremunerative. Honey was being hawked on the local market by needy producers anxious to sell, and as the supply even then always exceeded the demand, buyers had no difficulty in filling their requirements at their own prices. Those who produced enough to export their own met the conditions that the meat exporters to-day complain of. These small lots were offered against one another on the London market, and while and more capital.—I am, &c., there is no doubt that much of the New Zealand honey arriving in England was Cheviot, April 21st, 1922.

packed and sold as English honey, the price to the exporter was about the price of other foreign honeys. It was these conditions that induced a number of beekeepers to join together and form the Honey Producers' Association. From the inception of the Association right through a period of abnormal conditions up to the present this Association has not only found a market for the bulk of the honey of the Dominion, but has been able to make such arrangements that suppliers have been able to draw prompt and substantial advances as soon as the honey has passed the grader. When the circumstances are considered under which the Association was born and has lived, suppliers should be more than satisfied with the services rendered.

The Association commenced life with practically no capital. No payments in cash were required to take up shares, but only a small deduction made from the honey supplied. Yet the Association made advances. Through the war period when shipping failed, the Association's arrangestill find cash for the producers. When the slump came and the English market failed, a brief opportunity that offered owing to American exchange rates was taken advantage of to sell in America, and good returns were made. And last year when the slump struck New Zealand and it was impossible to get satisfactory advances on was successful in finding the money to make a very satisfactory preliminary advance. And this has all been done at a cost to the surpliers of less than £7,000the amount of the paid-up capital of the Company,

And what now? The exportable honey March showing the increase in production in New Zealand this year will be about during the past four years. This article 500 tons. Supposing we reverted to prestates that the increase in production had H.P.A. conditions, and this honey was nearly trebled during that time, and puts hawked around to buyers, what would be this down to the effects of the operation of the result? A little patience is necessary While no doubt the at this period. The Association has taken operation of the Act made the establish up marketing in England on lines approved ment of apiaries more secure, the stimulus by all the bigger producing industries in to increase and the incentive to others to the Dominion. It is only a matter of take up beekeeping came from an assured waiting till this market fully develops. market for honey at a payable price. It It will take a little time, but it is moving, may be interesting to those who have only and it will not be long before our export taken up honey production during later market is demanding bigger consignments, years to know what the conditions were The Association is progressing. The purprevious to eight years ago. Although chasing of the Alliance Box Company in the amount of honey produced then was Dunedin will be the commencement of a

> The directors, while claiming that they have "made good" under very difficult conditions, do not claim to possess all the brains of the beekeeping world, and will be deased to discuss any matters of interest with producers at the annual meeting or at the Conference. The Association has done good work as it is. It can do better with a fuller support of producers

> > J. RENTOUL.

Subscriptions Received.

[NOTE.-Should there be found any discrepancy, please write the Editor.]

Rangiora Branch, to June 23 J. W. Excell, Opotiki, to Dec. 22 D. M. Ewart, Paretai, to Mar. 23 J. Scott, Rongomai, to April 23 Campbell, Takaka, to March 23

Miss E. Crawford, Waikoikoi, to March 23 A. Eeroyd, Christchurch, to April 23 J. Appleby, Palmerston, to April 23 A. Gwyn, Broad Bay, to April 23

J. McLay, Otekura, to April 23 C. P. Darby, Pokeno, to Jan. 23 H. J. Ellis, Patutahi, to April 23 A. W. R. Quinnell, Kihikhi, to March 23 W. R. B. Mitchell, Puriri, to April 23

J. H. Fowler (6/.), Bunnythorpe, to Feb. 23 A. C. Craw (22/6), Chorlton, to April 25 P. Sullivan, Temuka, to April 23

D. Henderson, Corbyvale, to April 23 O. J. Hodge, Te Puke, to April 23

W. Hope, Gisborne, to April 23 C. J. Clayton, Peel Forest, to July 23 D. McQueen, Kennington, to Dec. 22 J. Peters, Kennington, to Dec. 22 L. Irwin, Woodlands, to March 23

A. J. May, Island Block, to April 23

H. R. Penny, Okaiawa, to July 23 W. S. Grenfell, Dunedin, to April 23

R. Jones (20/-), Balclutha, to Jan. 25 G. Watt (6/6), Riversdale, to March 23 K. Tsukigawa (10/-), Balclutha, to Sep. 23 R. Allsworth, Palmerston North, to May 23

W. Lyall, Pigeon Bay, to June 23 T. Wackett (5/-), Kawhia, to Jan. 23

T. Orr, Temuka, to May 23 H. Parrett, Tai Tapu, to Sept. 23

H. Parrett, Tai Tapu, to Sept. 20 J. T. McEwan, Runanga, to May 23 G. R. Willis, Pukekohe, to April 23 W. A. Willis, Pukekohe, to April 23 S. C. Rhodes, Tauranga, to Sept. 23

S. C. Rhoues, Tablanga, to Sept. 23
J. Jolly, Millers Flat, to May 23
D. McGregor, Browns, to May 23
Bernard and Barnes, Drury, to April 23
R. Hitchcock, Waimatuku, to March 23

J. Irving, Albury, to June 23 W. Gutry (6/-), Cambridge, to Feb. 23 H. Claughton, Havelock North, to May 23

"A very poor crop of honey about here this season. Even the thistles did not yield nectar. The worst season we have experienced!''-H. B., Masterton,

"Very poor year for honey here; most of the bees require all they gathered to carry them through the winter."-W. L., Pigeon Bay.

Mr. W. S. Pender (N.S.W.) writes under date April 12th:- "Market here oversupplied with honey, though constant onsupplied with honey, though constant on supplied with the suppl

Beekeepers' Exchange.

[Advertisements on this page will be inserted at the rate of 3/- per 36 words per insertion. Cash must accompany order or will not be inserted. Addresses care Editor 6d. extra to cover cost of postage of replies.]

FOR SALE, Strong 3-FRAME NUCLEI, with good strain young Italian Queens; guaranteed clean; any quantity; delivery now or Spring. Price on application to

H. R. PENNY.

FOR SALE, 61/2 ACRES; 4 acres in new grass; 2 acres in orchard; 250 apple, peach and nectarine trees; 250 gooseberry bushes

Apiary.-80 hives, with all bee appliances,, including two half-ton tanks, honey house (workshop, store-room and extracting room).

New Up-to-date Bungalow, electric light, telephone, rural delivery; 10 minutes from school; 1/2-mile from railway station. Bees sold separately if desired. Apply to T. H. CLARKE,

Melita, Mangapiko, Te Awamutu.

APIARY FOR SALE.

An APIARY of 70 Italians, in good order; lots of appliances on hand; also plenty of spring feed in combs; all for removal. Reason for selling: Bad health of owner. Apply

W. WATT. Mataura.

THE APIS

Port Hill House, Benson, Oxon,, England,

Two of the chief planks in the platform of this International Institute are-The stimulation and conduction of research work in Bee Culture and the creation of International scholarly relations amongst progressive apiarists in all countries.

Membership fee, 10/6 per annum, which includes one year's subscription to the "Bee World," a paper that has by sheer merit come right up to the front rank of Bee literature. ENROL NOW!

Special Notice to Beekeepers.

THE BAY OF PLENTY COME FOUNDATION FACTORY WILL BE RUN IN FUTURE BY J. W. EXCELL, SOLE PROFRIETOR.

AS WE WISH TO WIND UP THE OLD BUSINESS ALTOGETHER, WE WOULD LIKE ALL ACCOUNTS IN AS SOON AS POSSIBLE

WATCH THIS SPACE FOR FURTHER ANNOUNCEMENT.

J. W. EXCEL OPOTIKI. BAY OF PLENT

After considerable experience the demand for our Foundation Comb has grown to such an extent all over Southland and Otago that we have decided to supply all Beekeepers with our own Foundation Comb, or make up their own Wax.

Local Foundation always in stock.

Also Makers of Hoffman Frames, etc.

Samples and Prices on request,

Address:

Butler & Hemmingsen 83 Teviot Street, INVERCARGILL.

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UNTESTED

DELIVERY IN ROTATION OF ORDERS MID NOVEMBER TO MID MARCH.

1 or 2. 7/6 each

7/- each.

6/6 each.

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DELIVERY IN ROTATION OF ORDERS FROM THIRD WEEK IN OCTOBER.

12/- each.

TERMS .- September to March-Cash with Order; Cheques to have exchange added. April to August-Orders for the following Season may be booked; payment at time of delivery.

Any Queen arriving dead at original address replaced Free if Cage is returned unopened.

REPORT OF LAST OFFICIAL INSPECTION:

Dept. of Agriculture, Industries & Commerce,

Blenheim, Sept. 15th, 1920.

Mr. J. H. Todd, Renwicktown,

Sir,—Having examined every hive at your Apiary at Renwicktown, I have found no evidence of Foul-brood. (Signed) A. P. YOUNG. Apiary Inspector.

POSTAL ADDRESS:

J. H. TODD. Renwicktown, MARLBOROUGH.

Why Purchase a Bartlett-Miller Reducer?

Beckeepers need that the fact be emphasised again and again that the Honey Extractor is a boon and a blessing ONLY WHEN THINGS 60 RIGHT, and even then only for healthy comb. One time that the Extractor close not exactly make are several jobs around the several that the Extractor does not exactly make of the same importance.

The least important of these "extractor-strike" jobs is the melting of cappings, and despite the fact that most producers imagine that job is the most important one which a Reducer is purchased to accomplish, IT IS NOT SO!

Any Reducer to be worthy the confidence and praise of its owner MUST POSITIVELY be able to reduce (both rapidly and without trouble) any old and solid waste every season to those who own one.

It is all very well to save the awful bugbear of the disposal of cappings, and for that job alone a Reducer saves its cost by the elimination of mess, worry and waste every season to those who own them.

S-T-I-L-L, many honey producers have allowed their minds to become obsessed by the idea that capping reduction is the be-all and end-all of a Reducer's existence, but it was the result of our experience over thirteen years ago that led to the advertising of our invention as distinctly a COMB REDUCER. NEVER did we describe it as a Capping Reducer without the additional word "Comb," for unless a Reducer will handle the blackest combs that ever were taken from the worst clogged broodnest (with pollen, that is), it will prove nothing better than a deceptive fair-weather friend at just the very time when you need a friend in the shape of a utensil that will see you through the stiffest problem of all one's beekeeping experience, and that problem is the saving in marketable shape (without danger of infection) of the wax and honey in combs from the brood-nest infected with foul-brood. Otherwise they must be absolutely wasted, and the amount of good wax and honey wasted every year through the lack of a utensil to conveniently handle the diseased combs would pay twice over for a Reducer for every Beekeeper in the Dominion. We have a letter from one of our purchasers which we expect to publish in next issue if permission is given us to do so, stating that the owners saved seventeen pounds in reducing comb from box hives, purchased by two friends, the other one of whom saved the bees but burned the combs. Each party took half of the Maori-owned boxes, and our correspondent bought a "BOOSTER," and saved his £17!

Of course, the Bartiett-Miller Redoner is specially constructed to handle F.B. combs with safety. The solid matter is lifted by the operator into the front tube space as it accumulates in the other melting spaces, and here it is allowed to remain until all liquid has ron from it that will run, only a little wax remaining with the alungum; then the patented fall-down bottom is tripped, when all matter drops on to whatever the operator has held there to each it, and it is carried to the wax-supply cask utterly free from any honey to carry disease again by being robbed. By this means no amount of solid matter worth considering goes with the liquified honey to the separator, although the melted wax does, and is there separated from its liquid parties.

While the one space containing the solid matter is draining its honey, the rest of the Reducer is quietly going on with its job of melting cold combs. The fall-down bottoms are adjusted by means of screw nuts to whatever runaway space the operator desires—from wide open to quite shut.

ORDER IF YOU SO WISH BY ORDER ON THE H.P.A. AGAINST THIS COMING CROP. THE H.P.A. ARE OUR ONLY AGENTS.

The Thoroughwork Apiaries, Kihikihi

NEW ZEALAND CO-OPERATIVE HONEY PRODUCERS' ASSN. LTD.

FACTORY & SUPPLIES DEPOT,
Mason Street, DUNEDIN.
Telegrams: "BEEWARE DUNEDIN."

HEAD OFFICE, Stanley Street, AUCKLAND.

WE BEG TO ADVISE SHAREHOLDERS AND BEEKEEPERS GENERALLY THAT WE HAVE PURCHASED THE BUSINESS OF THE ALLIANCE BOX CO. LTD., THE WELL-KNOWN MANUFACTURERS AND DISTRIBUTORS OF

ALLIANCE SUPPLIES

The Purchase of this Business means that the Beekeepers control not only the Packing and Export of Honey, but also the Manufacture and Distribution of ALLANCE High-grade Goods, which are so well and favourably known throughout the Dominion.

For the convenience of Beekeepers, we are arranging that full stocks of all general lines will be carried in all the principal Honey-producing Districts. A list of Agents will be published in the near future. In the meantime Supplies may be procured from most of the Firms who handled "ALLIANCE" Goods in the past. Should there be no Agent in your District, write either Dunedin or Auckland Offices.

HONEY

Will those Beekeepers who are not Shareholders, please note that we have opened up our own Packing Depot in Great Britain, and the early reports to hand justify us in expecting a much larger return from our Export Market than the prices now ruling in the open market of the Dominion.

All Producers [sel the need of some modern method of disposing of their produce. The Meat, Butter, Cheese and Wheat Producers are all discussing the advisability of forming compulsory pools. The Honey Producers have

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