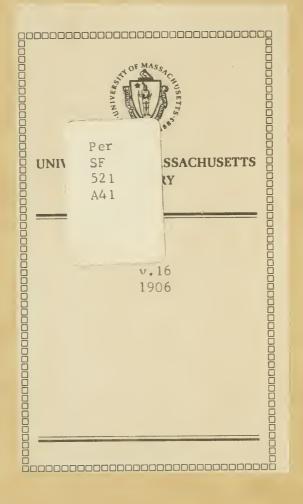
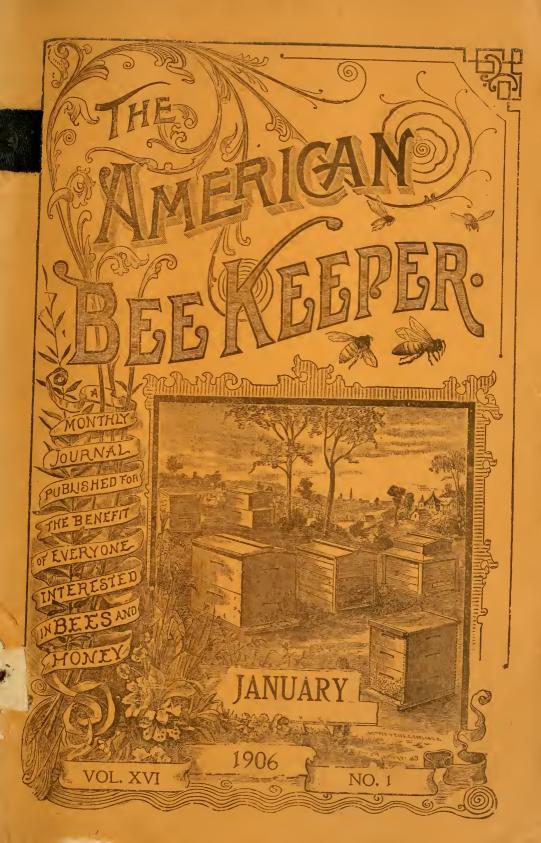


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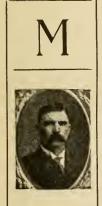
**JANUARY**, 1906.

No. 1

#### ONE DOLLAR A POUND OFFERED.

Those Who Think They Can Profitably Feed Sugar in the Production of Comb Honey are Offered an Opportunity to Increase the Profits.

#### By THOS. CHANTRY.



R. EDITOR:

so a letter from Dr. gar feeding.

honest and consci-

makes cannot be verified in our coun- but bees all over the country were getthat) only as an experiment.

I found that bees would let sugar In looking over syrup sour, untouched when honey could the November num- be had from the flowers; and when ber of The Bee- there was nothing afield they would Keeper I notice a take the syrup for breeding and store letter from our it in the brood-nest, but in no case could friend, E. F. At- I get them to work in sections and water, and a reply finish them, even though I used drawn by A. C. Miller; al- combs and unfinished sections.

I tried it enough and in various ways W. R. Claussen, all so that I know it can not be done in on the suject of su- Iowa, Nebraska or the Dakotas at any profit to the bee-keeper, only as a While I think A. means of having bees in good healthy C. Miller a strictly condition, and strong for the honey flow.

After an early frost one fall we had entious man, some of the statements he a few weeks of very warm weather, try. I heard so much of it that I institing nothing. Our bees were strong. tuted some experiments and have proof I selected a colony in a seven-inch hive outside of my own statements. I have and weighed it and caged the queen to handled from 300 to 450 colonies in Da- keep any food from being used for kota and Nebraska for several years brood rearing, and put on a super, after and never fed any sugar except to keep weighing, and a feeder filled with syrup, bees from starving (and very little for half and half sugar and water late in the evening. Next morning it was all

gone and things looked prosperous with time when others are getting nothing. a little, but none finished. Fifty pounds were given them, but not all taken in over two weeks, and no more progress in the supers, and not a section finished. I killed the queen of another large colony and shook them in a box 14x14x22 inside and hauled them four miles and at night let them run in and weighed on two more supers, and gave them 25 pounds of good ripe extracted honey, thinned a little, and work commenced to progress rapidly. Afterward a syrup made of one part pure thick honey, two parts dry sugar and two parts hot water was used throughout the experiment, and as supers were finished they were set over escapes and taken off and weighed and increase of weight was noted, and each week I was obliged to add another colony of bees, as before, until four were added.

One hundred and twenty-five pounds of dry granulated sugar was given; 125 pounds water and 62 and one-half pounds good ripe honey. The supers gained 94 pounds and the brood nest 20 pounds, making a total gain of 114 pounds.

The food was given in such a way that it was impossible to rob and there was no fighting or commotion, so that we know there was no robbing. The results were: It cost four swarms of bees 125 pounds of sugar and 62 and one-half pounds of thick honey to get 94 pounds of section honey and 20 pounds gain in the brood nest.

Where did all the water and so much weight of the sugar and honey go? The honey in sections was pronounced very good by everyone who ate it.

I claim, like Prof. Cook and many if you take sections and foundation it will have a honey taste and a honey

in. Next night it was again filled and by feeding sugar syrup or a mixture, only a part used. Sections were filled or glucose, or any other way, and at the market price of honey get one cent of profit for your pains, I will give \$100 for 100 pounds of it.

> Another experiment: We always have a starving time here between fruit bloom and sweet clover. I put glucose into a feeder in a super of two colonies and sugar syrup in the rest. I came again in thirteen days and found the glucose colonies both dead and syrup untouched, while everyone having sugar syrup was breeding finely.

> In this country we have no foul brood law, and I would give bees honey only in combs from colonies I knew to be healthy. I would not risk honey that had been extracted from a promiscuous lot or buy it to feed.

> Now, don't understand me to disagree with Mr. Miller, as to the value of honey over sugar. My experiments would surely show that honey is cheaper at double the price, but it is too dangerous.

> As for the small amount of honey that might be carried into the sections next year: The people who eat it will never make a protest; only those who want to be over zealous.

> Dr. W. R. Claussen has never made a "stake" in profits on feeding sugar and selling the sugar thus made into honey. No, nor anyone else, for it cannot be done at the present prices of sugar and honey.

I read all the bee papers and have yet to see where anyone has ever recommended feeding sugar syrup for profit after having tried it, and I am sure I never will, and am, furthermore, certain that no consumer eating such others, that the bees made it into honey honey will ever object to it as far as -pure honey. Anyway, it cost more food value is concerned. Of course, it than twice what we got for it; so I say will not have a basswood flavor or that to anyone in this part of the country, of white clover or California sage, but and get them filled by the bees at a value as food, and cost the producer

double what honey from natural sources it and risk foul brood or some other will cost.

On page 219 of the November Bee-Keeper Bro. Miller makes a statement: "I have seen sugar feeding successfully carried out and have seen in the aggregate thousands of pounds of honey thus produced." If it was comb honey it was surely good, and a good food; but I am sure that such honey was produced at a loss, if cost of sugar and vitality of bees were considered.

I think I have said enough to show Dr. Claussen that there is an "earthly reason" why we may "not have bumper crops of sugar syrup nicely stored in well sealed combs," and if he still believes that he or any other person can do it, let him try to get my \$100 before he starts in on a large scale.

Remarks such as Dr. Claussen uses, inferring that sugar feeding to produce honey to sell can be done at a profit is what does more harm than does all advice to feed as a necessity.

I have met several bee-keepers who state that some of their competitors feed sugar to increase their crop (which might be true in that he kept his bees breeding and strong for the flow, rather than starved down weaklings) and to prove that it can be done he will tell how greedily his bees took syrup, etc., but I am ready with my \$100 to get him to try it. I do not hesitate to tell any bee-keeper I ever met: "You never fed sugar syrup when other bees were getting nothing and had 100 sections of honey filled and sealed without the sugar costing you more than the honey will bring." Say nothing of the labor and loss of vitality.

I suppose that every bee-keeper has not realize that it is possible to progress? fed his bees as did Dr. Claussen when he has the filled combs of honey and also evened up the stores the same way out and must be fed or die he has no fend us from their teachings. honey and he had better feed sugar

trouble.

Sioux City, Ia., Nov. 27, 1905.

#### MR. ATWATER QUOTES.

#### By A. C. Miller.

MERRY FELLOW is E. F. At-A water, who will have his joke despite the other fellow's feelings. It seems that I exposed some of the mud on one of his idols and cast some reflections on others, and it grieved him, so forsooth he must needs try to poke a bit of fun at me, wherefore he writes as follows:

"I want to call the attention of your readers to the following, written by A. C. Miller, in American Bee-Keeper, April 1902, page 59:

"It may not be considered to be economical management to give colonies much more honey for winter than will suffice them till fruit bloom. Perhaps it is not in some places, but it certainly is the best plan here, and colonies so supplied are ready for the supers first and produce as fine a grade of white comb honey as may be desired. The dark honey, which may be in the combs below, never seems to be carried into the supers, so that feature is no bugbear."

Just because I then said that the dark honev never seems to be carried above, he deems it inconsistent for me to now say that sugar syrup fed to the bees gets transferred from the brood nest to the supers.

Oh, E. F., hast thou so long blindly worshipped at the shrine of Used-to-Be-Hence-Always-Must, that thou canst

Pray, must an author once having expressed an opinion always stick to it? Is that the effect of following thy idols, in the spring, but when his bees are all kind sir? If so, may the fates fore-

At times thou exhibitest the saving syrup than to buy honey and feed with grace of wanting to know a man's rea-

sons for the faith that is in him. So mitted to a vote, it occurred to me that in moderate quantities with light honey tion. What more would you have?

In closing let me give you a bit of advice. Don't take my say so, go see for yourself. And, don't take the other fellow's say so just because somebody has called him a big chief; they may have an object in so doing; go see for vourself.

Providence, R. I., Nov. 6, 1905.

#### THE HONEY PRODUCERS LEAGUE.

#### An Explanation and a Reply to N. B. K. A Member.

By Dr. C. C. Miller.

Keeper appears an article written by "N. B. K. A. Member," which does not speak in the highest terms of the work of "The Honey Producers" League." It seems to be in part the work of an imagination not in the best state of repair, but one item mentioned presents ground for real objection. It is that clause of the constitution which says: "This constitution may be amended by a two-thirds vote of the membership at any regular election, and approved by it."

That looks bad. It is bad. Worse than that, I am the chief culprit in the case, and the main purpose of my writing now is to say so. When it came to the matter of amendments to be sub- its results."-ALLEN LATHAM.

let it be and listen. The so-called dark it was a matter of considerable expense honey of hereabouts is most always on to have printed and sent out questions the golden shade and of bland flavor to be voted upon, and that there ought when well ripened, hence when mixed to be some sort of check against unnecessary expense, and that something its presence is not suspected. Dark more than the whim of an individual and strong however, like that from should decide what should or should not buckwheat, make their presence known. be sent out. My idea was not that the The occurrence of such honey and the executive board should use its influence experiments of the gentleman of whom in deciding any question one way or the I spoke in the last issue drew attention other, but that it should have the power to the probability of error in my earlier to say whether it was in order or worth conclusions. Such error was proved by while to send the question out. There subsequent experiments and observa- was opposition to my idea, and as I now remember no one but myself was urgent about it, but after more or less changing of phraseology it was passed. The thing came on the spur of the moment, or at least without any previous thought, and it is plainly apparent that as worded it does not express my idea, and instead of saying "such proposed amendment be first submitted to the executive board and approved by it," there should have been some such wording as this: "submitted to the executive board and its submission to the members approved." I cannot now say whether I was too stupid or too N PAGE 196 of the American Beet tired to see how lame was the wording, but there it is, and I can only say that I am the one mainly to blame and throw myself on the mercy of the court.

With regard to the enterprise in general, I will only take space to say that I believe it to be a sincere and honest effort to do just what is expressed on the face of it; that the members have put money into it without the hope of any resulting benefit other than will be shared by bee-keepers in general; and that if "N. B. K. A. Member" will provided such proposed amendment be take the trouble to inform himself more first submitted to the executive board fully, he will regret his unkind suspicions and be honest enough to say so.

Marengo, Ill., Dec. 6, 1905.

"The Manum swarm catcher is much better with a burlap bag than with wire cloth and either way it is uncertain in

#### ARTIFICIAL HONEYCOMB.

That Which is To-Day Considered an Impossibility Was Accomplished Over Thirty Years Ago.

By ARTHUR C. MILLER.

IT HAS LONG been strenuously as- ander Shaw about 1870 or 1872, and was

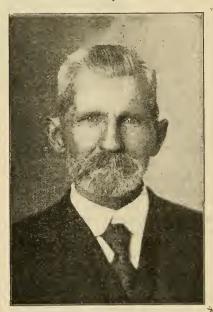
PHILANDER SHAW.

the common knowledge of the Weed patents.

To be sure, his process is too expensive for commercial purposes, but that does not alter the fact that artificial comb has been and can be made. But artificial comb was made and used over thirty years ago, and through the courtesy and liberality of Mr. E. L. Fickett I am now the possessor of samples of shoe factory, agent for machines used such comb made about 1874, and of the in the business and an inventor of many tools for making it.

serted that no such thing as artificial worked over and developed by him up comb has or can be made, and these as- to about 1876 or later. In 1874 he filed sertions are continued notwithstanding application for patents on tools and product. In 1876 both tools and comb were exhibited at the Centennial Exposition in Philadelphia. Most of the combs made were six by six inches and intended for use in surplus honey boxes, but Mr. Fickett, who attended to the apiary end of the experiments assures me that the bees used the combs freely for brood as well as for honey.

Mr. Shaw was a superintendent in a



E. L. FICKETT.

appliances, one of note being a device The process was invented by Mr. Phil- used in the manufacture of shoes, another a hot air engine, and another for from photographs; that of Mr. Shaw the pressing of wood into forms imita- having been taken some years before ting carving. Mr. Shaw died in Boston his death, while Mr. Fickett recently in 1879, aged 69 years.

His invention of artificial comb was American Bee-Keeper. The other ilahead of the times and failed to be of lustrations were taken from samples

profit to him. To-day it would be appreciated and there is a possibility of its being put on the market the coming season.

Mr. Fickett, to whom the fraternity is indebted for keep ing this invention alive, was born in Auburn, Maine, in 1835. moved to Massachusetts in 1853, and began bee-keeping in 1860 and has continued at it ever since.

Mr. Fickett early made a

ARTIFICIAL COMB MADE IN 1874.

specialty of raising queens and supplied furnished by Mr. Fickett and now in them to Mr. King, then running the the possession of the writer. Bee-Keepers' Magazine.

Mr. Fickett was the originator of the fruit-jar-feeder and describes its use in one of the New York bee papers about 1870. Despite his years, he is active and wide awake to all the details of of 99 per cent of the bees lost in winmodern apiculture. He is a pleasant



MOLD FOR MAKING COMBS.

and affable man and full of information lived ones are the most profitable."on bee culture past and present.

had his portrait taken expressly for the

Providence, R. I., December 11, 1905.

#### LATHAMISMS.

"Moisture is the cause of the death ter."

"Bees in winter will be found clustered on the sunny side of the hive."

"Black or dark red is the best color for a double walled or chaff hive, but it should be shaded in the summer."

"Study the age to which the bees of your different colonies live. The long ALLEN LATHAM, at the December meet The accompanying illustrations are of the Massachusetts Apicultural Ass'n.

#### FOUNDATION VS. COMBS.

Bee-Keepers of France Make Comparative Tests.

By ADRIAN GETAZ.

SOMETIME ago, I stated that one combs until next year or to melt them. kind of work done by the Euro- Will the wax thus obtained pay better pean bee-keepers' associations was to than the excess of surplus which would institute experiments on the doubtful be obtained the following year by using points of bee-keeping. This is a work built combs? that could well be undertaken here Such was the program. The conply asked. At other times some exper- walled, with packing between. iments have to be conducted on certain Only two bee-keepers responded, Mr. prescribed lines.

easily understood when one knows that is said about them.

also. It is not compulsory in Europe, testants were requested to compare the only those who are willing take part. results obtained by colonies having: Sometimes prizes are offered to those First, built combs; second, full sheets who will make the best reports. This of foundation; third, starters. Furis especially the case when the desired thermore, each series was to be divided experiments require some expense, into two-one portion having single-Sometimes a series of questions is sim- walled hives and the other double-

Chas. Guillemin and Mr. Brunerie. The Society of the Department de la Concerning the double walls, Mr. Guille-Meuse is the most successful in work of min's experiment is not 'conclusive. that kind. Last year I gave an ac- The colonies in double-walled hives gave count of a series of questions asked a little less surplus than the singleand answered concerning swarming, walled ones. But they had, we might I also stated that another series of ex- say, bad luck. One swarmed, another periments had been instituted, or rather did not work well until quite late and asked for, by the Society, concerning three of them laid out in front of the the use of ready built comb, foundation hives a part of the time. Concerning in full sheets, or starters in the supers. the advantages of built combs, the colo-To understand this it must be remem- nies having them gave a surplus of bered that those of the European bee- about 130 lbs. each; those with full keepers who use modern hives work sheets of foundation about 100, and for extracted honey. But they do not those with starters about 80. The seaalways give a set of built combs. son in that locality was exceptionally Sometimes it is only foundation or good. The amount of wax produced to starters. Most commonly it is a few complete the combs by the colonies combs and the rest mere starters. The having foundation or starters was from starters in the majority of cases are two and one-half to four pounds per only a very little strip left when the colony. The weight of the foundation comb was cut out the year before, given is included. The cappings were The preference for extraced honey is probably also included, though nothing

there the extracted sells at the same Mr. Brunerie did not comply entirely price as the comb honey. As the price with the conditions required. He simof the wax is proportionately very ply used the hives he had, so the influhigh, the question to solve is which ence of double walls is not considered pays the better, to keep the emptied in his report. On the other hand, he

had already been experimenting on the colonies having received only foundation a few years. in full sheets or starters, so the combs or foundation given are a complete loss. He attributes these results to the nature of the honey flow in his locality. There are two flows, each lasting four An Interesting Article Elicited by a Geror five weeks. The first occurs in May and June, the second in July and August. During the first flow the average daily increase shown by the colonies on scales is about one and one-half pounds while the extreme maximum observed was six pounds. During the second flow the average is only about ten ounces. With such a light flow, the bees can build all the combs needed as fast as the nectar comes in to fill them.

And now I'll ask to be excused if I "butt in" and add some comments of my own: In the first place, I am quite surprised at the results obtained by Mr. Brunerie. I should have expected some difference in favor of the built combs even in a locality like his.

favorable to comb building. It may apiarist. be said that such or similar covers are

His double-walled hives did not have question of built combs vs. foundation sufficient ventilation. He admits that and merely continued his previous ex- himself, but does not seem to realize periments. So his report covers four that by giving a much larger entrance years with quite a number of colonies. he could have prevented much of the The results obtained are completely trouble and yet retained all the advantdifferent from those given by Mr. age of a warmer hive during the night, Guillemin. In Mr. Brunerie's locality which is an important item in wax prothere is no difference at all between ducing and comb building. He conthe surplus produced by the colo-cludes his report by saying that he will nies having built combs and that from continue these experiments for at least

Knoxville, Tenn., Dec. 8, 1905.

#### QUEEN-FINDING METHODS

man Questioner.

#### By Geo. W. Adams.

Dresden, N Germany, Oct. 8, 1905 Mr. S. G. Kilgore states in the American Bee Journal, page 678, when requeening his apiary Journal, page 678, when requeening his apiary and in placing the new queen in a cage on top of the frames of the colony, at the end of two days, when opening the hive the old queen will generally be found clinging to this occupied cage, for she will always hunt up a rival queen to give battle,

If this is the case, the old queen only needs to be taken away from the cage and all customary hunting all over the hive to find the old queen could be saved

Kindly let me know through the columns of the American Bee-Keeper what you think of this sim-ple way to find the queen, and if you or any of your friends have had similar experiences. With best thanks in advance, yours very truly,
William Hesse.

THROUGH THE COURTESY of Editor Miller I have read the inquiry of tor Miller I have read the inquiry of Mr. Hesse, of Dresden, Germany, as In regard to Mr. Guillemin's experi- to the practical possibilities of queen ments, concerning the double-walled finding as described by S. J. Kilgore, hives, two things are to be taken into page 678 of the American Bee Journal. account. His single-walled hives have Now if I have learned anything from a double cover with a packing of bee-keeping it has been not to be dogoat-chaff. This is the most important matic, never to say a thing cannot be bepart of a protected hive, as the loss of cause I have never seen it, for as to heat takes place principally through the Madam Apis, "Age cannot wither or cover. If his covers had been a single custom stale her infinite variety,"-she thickness, the results would have been seems to delight in setting at naught quite different and probably very un- the calculations of the most careful

In this matter of finding the old queen in use altogether in Europe. A mere clinging to or near the cage of a new board for cover is not thought of there, queen placed upon the top of the frames,

I have had so much negative experience across the ends to prevent warping found near it.

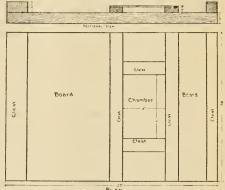
I say this, at the same time having no doubt of the perfect honesty and sincerity of Mr. Kilgore. I wish he may prove to be right and myself entirely in the wrong, for such an easy method of queen finding would not only be extremely useful in my apiary, but place my "Adams introducing board" among the most useful appliances of the yard.

It was possibly because of this trifling "invention" of mine, and because of my custom of putting a caged queen into any hive that came handy at any time and for as long as I cared to keep her there, that this matter was brought to my notice.

Many years ago when requeening a good many colonies of black bees, and sometimes having to keep rather valuable queens on hand during cold weather or when other business kept me from my bees, I evolved this plan of a chamber four inches by six inches, and two inches deep above the frames and a little to the rear of the centre of the hive (as being the warmest spot) with ability by reversal of bringing it nearer the front. This chamber, although of 48 cubic inches capacity, has never been used for comb-building, but so far has invariably been left free for my use. and has been very handy for preservation of subjects for dissection, any caged bees being fed and tended as if they belonged to the colony. For cold weather I prefer the chamber to be 2x4 however. The fact that it is covered by glass, allowing inspection with no disturbance is of value, the glass being darkened by a bit of cloth being laid find so convenient. over it.

The construction of my introducing board is like this: I use an 8-frame hive-Hoffman frames-and so my board is 14x20, half-inch stock, cleated -but not that of an angry bees.

that I could more readily believe that with cleats one inch thick and of suffishe was not allowed to approach the cient width, through this "cover" (for cage than that she would as a rule be it exactly covers the hive, allowing the real cover to shut down over the above mentioned cleats, on which the cover rests). I cut a square hole a little to the rear of the centre, and around this hole nail cleats three-quarters of an inch thick, on these lay a piece of glass, drop a piece of cloth or very thin wood over the glass to shut out the light, which brings the cover of the whole up nearly to a level with the end cleats. put the real cover over all, and there you have an observation or warm sto-



ADAMS' INTRODUCING BOARD.

rage chamber; or, as I term it, Adams Introducing Board. Try it!

But to get back to my subject: In all the years I have used it I have never seen the free queen approach the prisoner, or enter this chamber of which, of course, the tops of the brood frames make the bottom.

I think this fully answers the question of Mr. Hesse, and if he or any other person wishes to repeat my experiments they can easily make up the little device which I have described and

Rowley, Mass.

Tales from Beeville-Stings. A soft answer may turn away wrath

#### PARTHENOGENESIS IN ANTS AND BEES.

By Burton N. Gates, Clark University.

(The relation of fertilization of the egg to the sex of the progeny in Hymenoptera.)

THE PROGENY of a queen bee are well known to consist of three casts; males or drones developed from an unfertilized egg; queens and workers, developed from eggs of the same ovary, but fertilized. This theory in bees is a half-century old, but in ants no definite proof of the same was reported until the work of Miss Adele M. Fields, whose paper (1) just published gives conclusive evidence in several genera of ants that the Dzierzon theory for bees, is true for ants. Since ants have closely allied hymenoptera to apis, the investigations are of importance, in proof of the origin of male bees.

A brief outline of the rise of our present conception in bees may be of interest in this connection. All dates from old Onkel Swammerdam-1637-1686. He determined the queen to be the mother of the colony-a most pronounced discovery. But in his explanation of how her eggs were fertilized, he erred. He observed the strong characteristic odor of the males, and said that this, intensified by the large numbers of drones present in the hive, impregnated the queen. John De Braw, writing in 1777 on the sex and propaga- Formicidae. tion of bees, suggested that fecundawere laid. A few years later, Huber queen and drone, within a few days

discover the relation of the spermatazoa transmitted in this union by the drone. These things were first being understood in 1853 when Dzierzon gave conclusive proof of the drone resulting from an unfertilized egg. But with ants, closely allied hymenoptera, such evidence has been wanting until Miss Fielde's observations were made. And just here, her observations on ants are of importance in relation to bees; her work lends strength and support, and confirms our investigations on bees.

Briefly, her observations are these:

Miss Fielde took extreme precaution in establishing her nests for observation, and procured ant groups of "indubitably virgin workers." "The eggs deposited in these nests were certainly unimpregnated." Her experiments show without exception, that from virgin workers "no other than male young had been produced."

Similarly with a virgin queen, (Cremastogaster lineolata,) constantly observed for more than two years (in this period 63 males were produced) it was found to be producing male offspring

Miss Fielde modestly concludes, that "some virgin workers (all of which she has had opportunity to observe) lay eggs and that many ant eggs which have had no contact with spermatozoa produce males." Thus Dzierzon's theory for bees may be extended to the

Knowledge of this fundamental law tion of the egg occurred after they explains many an occurrence in the bee yard. It accounts for a laying worker showed by ingenious experiments, the depositing male eggs only. It accounts errors of the earlier investigators. He for an old queen filling the hive with proved the meeting in the air of the drones. In this case, the queen having exhausted the sperms supplied by the from her emergeance from the cell, to drone at mating-although according be an act of copulation. But he did not to Cheshire she had from four to twelve or according to Leukort, even twentyfour million spermatazoa transmitted to her-became a "drone-layer."

> Similarly an injured or diseased queen. whose ducts are not able to transmit

Note—(1) Fielde, Miss Adele M. Observations on the Progeny of Virgin Ants. Biological Bulletin of Marine Laboratory, Woods Hall, Mass., Nov. 1905. Vol. IX. No. 6; p. p. 255-360.

the sperms to the eggs, are "drone-layers." These few and many more oc- for the production of honey, as I supcurrences in our hives are explainable pose all apiarists do, I have no use for in knowledge of this theory which Miss such blood in my apiaries, and have Fielde has just now emphasized.

Worcester, Mass.. Nov. 28, 1905.

#### NO USE FOR CAUCASIANS.

One of America's Foremost Honey Producers Weeding Out the Blood of the "Noble Race" for 22 Years.

By J. B. HALL.°

DITOR AMERICAN BEE-KEEPER: You wished me to report my experience with Caucasian bees. I comply for the benefit of those of my apiarian brothers who have not already tried them. As I have no axe to grind. (not having for sale any bee-keeper's supplies or bees, but honey only,) I say this for their benefit, not my own,

I would say that I received, on May 24, 1884, two colonies of Caucasian bees from Julius Hoffman, of Canajoharie, New York. He reports that he received them through the Russian consul to the U.S. My experience with them was they were the gentlest bees that I ever possessed, and the best winterers if given honey gathered by other bees to winter on.

Their characteristics: A very small, dark bee, thickly covered with down and having three distinct gold bands on the first three segments of the abdomen; said bands being about the breadth of a hair. Another peculiarity was in the number of queen cells started and matured. We have counted perfect queens thrown out at the front of a hive to the number of one hundred and twelve, and these not as with other bees, thrown out at one time, but in about seven days. Another peculiar characteristic they have is that of capping their honey with concave, instead of convex caps, so that the ribs or sidewalls of the cells show distinctly on the face of the comb-an undesirable feature in the production of comb honey.

In view of the fact that I keep bees been weeding it out for the last twentytwo years. For the admirer of the pretty, gentle bee, I have found that a cross of these queens with Italian drones produces a very handsome bee indeed. But with us, "handsome is as handsome does,"

Woodstock, Ont., Can., Nov. 25 1905.

#### MORE CAUCASIAN EXPERIENCE.

Canajohare, N. Y., Dec. 21, 1905. EDITOR AMERICAN BEE-KEEPER:-

I am sorry not to have been able to answer yours of December 2nd any

In regard to the Caucasian bees I will say: I imported them in 1880, consisting of two nucleus colonies. I ordered them from a party in St. Petersburgh, Russia. They were sent direct from the Caucasus mountains to St. Petersburgh and from there in the original package to Germany and after a fly, were brought over here to my place by a cousin of mine. Most of the bees were dead but the queens alive.

My experience with them is this: The two queens varied some in looks, one showing narrow yellow stripes resembling the Italians, and one having silver-Their progeny gray hair covering. proved to be very gentle, and the queens very prolific. The Caucasians, however, did little or no work on buckwheat, but produced the finest grade of white comb honey.

When preparing for swarming they would raise from 75 to 100 queen cells in bunches, the cells being of a very small size. This fact, and not being good workers on buckwheat, made them undesirable for me, as I am located in a buckwheat section.

The Caucasians, however, are a very good bee for clover sections.

Very truly yours, Julius Hoffman.

#### THE ROYAL COCOON.

Notions, Old and New, About Queen-Cells.

#### By ALLEN LATHAM.

WHY DOES the royal larva spin a it extremely difficult to regain the nornot tolerate an injured queen cell.

Several times during the past season I mended queen-cells which had become was torn completely off the comb, and the nymph left exposed in the cocoonportion. I selected an old, vacated cell, cut it down, fitted it roughly to the injured cell, sealed the ragged line with hive. The gueen from that cell is now idea about queen cells. in one of my colonies.

Knowing thus that cells could be successfully repaired, I tried repairing a cell which had been torn open by a virgin rival. A piece of foundation was laid over the opening and melted into place with a hot wire. The queen from this cell had not been stung; she is today alive and well.

Since I have shown that the generally accepted answer to the question which heads this article is false, it falls upon me to furnish another answer.

matter of convenience and safety to the

cocoon over only a portion of the mal position. In consequence of this cell-wall? Some of the old masters condition she spins a cocoon about that averred that the upper portion of the portion only of the cell which she can cell was left providentially for the easy conveniently and safely reach without stinging of the occupant by a rival. letting go from above. This answer Such a reason is not tenable, since it is has not been tested for its correctness manifestly impossible for the sting to to my complete satisfaction, but as a penetrate even the waxen wall of the guess it is logical and has not been cell. Even after a rival queen has torn founded upon the throw of a die. In a hole in a cell she rarely, if ever, stings connection with this is seen why the the occupant-leaving the destruction larva does not spin the cocoon to the of the immature queen to the workers. extreme apex of the cell, spinning down It is well known that worker-bees will only so far as she can conveniently reach.

#### THE CELL OPENING.

We often see the expression, "cell injured. On one occasion a valued cell with decreased opening for the queen to lay in," suggesting that the opening is small to cause the queen to deposit a female egg. It is hard to wean beekeepers of the idea that the size of the cell-opening aids the queen in determinmelted wax, and replaced the cell in the ing the sex of the egg, hence this false There are two reasons for this small opening in the queen cell.

> First, the worker uses the rim of this opening as a scaffolding upon which to rest as she polishes the interior of the cell, or does other work therein. Secondly, the opening is small to minimize the change of air and hence loss of moisture and heat from the cell, in other words, to keep the cell under uniform conditions internally.

At the time the egg is deposited the cell is nearly spherical, the edges of the The cocoon is imperfect simply as a opening being distinctly inturned. After the egg hatches the cell is elongalarva spinning it. The cell in which ted, but the opening remains of essenshe lives is overlarge, and if she once tially the same size, and the edges congets turned about in this cell she finds tinue to be inturned. While the nurse-

how difficult it would be to sustain oneself inside a large kettle, suspended open side down, he may appreciate the difficulty the worker-bee would have in carrying on the duties about the queencell, with its highly polished interior, without the aid of the turned in edge.

Though the diameter of the cell diminishes as the cell is prolonged, there is always more or less of the edge left rough and slightly turned in, and the opening is seldom larger than that of the worker-cell. At the proper time the opening is closed by carrying on the edge till the rather evident apex is formed.

WHY THE QUEEN-CELL IS VERTICAL.

Do I dare venture here? What has been offered heretofore in this article is backed up with evidence gained from close observation, but we now strike a subject which is scarcely open to dem-

bees are packing food about the larva onstration. It would probably be easy they rest their legs and wings on this to show that originally, in the primitive edge. If one considers for a moment ages of the honey-bee, when the queens and workers were one-all cells were vertical like those of the hornet, and that the queen-cells of to-day are simply a survival of that primitive stage. To explain why the queen cell has retained this verticularity is another mat-

The reason, like all reasons where Nature rules, is simple to the extreme. As all natural air circulation is brought about by the force of gravity, being the running under of heavier air and the uplifting of lighter air, the cell is placed to meet this natural condition and thus prevent air circulation in the royal cradel. With the air tight ceiling and the depressed opening the air in the cell is kept uniformly moist and warm. As moist air is light and hence forced up by the heavier, the upper portion of the queen-cell is ideally perfect. When one has observed how rapidly royal jelly dries up, and becomes unfit for the osmotic ingestion of the larva, he will appreciate the statements just made.



#### GERMANY.

EARLY BREEDING DESIRABLE.

At a late bee-keepers' meeting at Durheim, Editor Reidenback spoke at length on how to produce strong colonies ready for the harvest. He said to accomplish this object one must understand the nature of bees. There is a time when the development of a colony is very rapid, then there is a time when only enough young bees are reared to keep the number good; finally, life comes almost to a standstill. Springtime is the time when growth commences and with the advance of the

season it increases; with the setting sun it decreases. It is poor policy to allow swarms late in the season. The time for them to grow into populous colonies is past. We need strong colonies to take advantage of a honey flow, because a strong colony sends proportionately more bees to the fields than weak colonies. Herein lies the whole secret: A strong colony, numbering 30,000 bees, can send a force of 10,000 workers to the fields, or about onethird, while a small colony of about 10,000, send out but 1,000 or one-tenth part.

A large amount of honey in the hive

has a stimulating influence upon bees in the spring. Honey produces stronger bees than sugar. It has been observed that bees reared and fed on good honey make flights when the temperature is much lower than colonies fed on sugar. These are facts and the wise bee-keeper observes them.

#### YOUNG QUEENS MAY SWARM.

It has been laid down as an old, infallible rule that young queens will not lead out swarms the same year in which they were reared, but Seipz Bztg. says this rule only holds good so long as queens remain at the head of the colonies which reared them.

#### GOOD PRICE FOR "EXTRACTED."

The honey, offered at a regular "Honey Market'' day, Oct. 6, 1905, in Berlin, brought 30 cents per pound for extract-Comb honey is not mentioned. ed. Leipz Bztg.

On a similar occasion extracted honey brought 19 cents in Hannover on Oct. 3. Comb 31 cents. Centralblatt.

Under date of Nov. 1 the same paper has this to say about the honey and wax market: "Little demand honey, but wax is sought after by wholesale dealers at 32 cents.

#### FORAGE MUST BE SCARCE.

Alberti says, in his book on bee-keeping, that the average locality in Germany may be considered as fully stocked up with 30 or 40 colonies. A. Schmidt, Guschau, has come to the same conclusion. His average yield when but few colonies were kept was 25 pounds of extracted. Now, with a force of 60 colonies the average has been lowered to but 12 pounds. Schmidt also claims to be justified in saying that field bees mel-Korb, in Deutsche lmker, does not seldom fly to pastures over a mile dis-believe in protecting his bees with wintant. If it is a fact that average loca- ter cases or any kind of packing. Hive tions are fully stocked with but 30 walls one inch thick, he says, are proswarms, then that fact explains why tection enough. He wants a large the majority of bee-keepers in Germany hive, with plenty of honey above the keep so few colonies.

WHERE THE GERMANS LEAD US.

An illustration in Deutsche Imker of the late exhibition of bees, bee-hives, honey, and apiarian implements made at Sluttgart, shows that German beekeepers respond to calls of this kind better than Americans do here. Particularly the exhibition of bees and hives must have been very elaborate, showing hundreds of them very artistically arranged. The reason that such exhibitions can be made in Germany, where bee-keeping is not nearly as renumerative as in America, is undoubtedly because the German governments give substantial aid to these undertakings.

#### A FATAL STING.

Franz Derndl, of Perg, died from the effects of one bee-sting. It was his illluck while eating honey to swallow a live bee, which stung him in his throat. This caused swelling of the affected parts and death occurred within a half hour. Leipz. Bztg.

#### IT WAS AN OLD ONE.

Among the apiarian implements exhibited at Danzig was an old log-gum from Austria. Its height was some six feet and the diameter about two feet. It was found in the forests of Hagenort in the year 1740, and contained then a swarm of bees. In 1775 it was cut off from the stump and moved to the bee yards of Lovenz Konsecki where it remained in use as a habitation of bees till 1904, where it was purchased by Siech in Saaben. - Deutsche Imker.

#### MAY BE SO.

F. Tobisch, the compiler of the Sambees, and the entrance so arranged that it cannot become clogged. Tobisch has only the one fear, viz: That his point has not been raised here. I have bees may starve. Of every 100 colonies read several reports in the bee papers that die during the winter, 90 starve, he claims.

#### FRANCE.

#### COMBS 45 YEARS OLD.

A box hive belonging to Mr. J. Touchet is 45 years old. It is the first one he bought when he began bee-keeping. The hive is so nearly worn out that a few years ago Mr. Touchet had to reinforce it with a coat of cement. Mr. Touchet makes the remark that the bees are as large as any other notwithstanding the age of the combs. During these 45 years the colony has not swarmed more than five or six times; the last swarm came out ten years ago. He adds that he has but very few swarms in his apiary. He uses what is called in Europe "mixed" hives, that is, a box hive for brood nest with a super of swarming is due to the fact that the combs. I may add that the "mixed" hives are very much used in Europe remained perfectly quiet until and well liked. -L'Apriculteur.

#### RUNAWAY SWARMS.

The question has often been raised as to the right of a bee-keper to enter the colony produce by their respiration about premises of somebody else to take possession of some swarm of his which has chosen to settle there. The French courts have decided that the right to follow and take possession of his swarm imply the right to go on or in the property to get it. Furthermore, if the owner of the property refuses to permit the entrance, which he has a right to do, he must be willing to pay the bee-keeper the value of his swarm. It is understood that the bee-keeper is liable for any damage he may do to culteur.

If I relate the above it is because the on that and similar legal questions. In all it was stated that the owner of the land has the right to forbid anybody and everybody from entering his property, but no decision went any farther than that.

The point that a bee-keeper has as much right to take possession of his swarm wherever he finds it just as well as if it was his horse or his cow, has never, as far as I know, been raised in this country. And, should the occasion arise, it would be well for our National Association to see about it.

#### ECLIPSE AND BEES.

During the last eclipse of the sun, an apiculturist of Pau, in the southern portion of France, noticed that the obscurity came so quickly that the bees which were out could not find the entrances of their hives in time. The movable combs. The cause of so little covers, the ground around and in the apiary and other objects were covered supers are used altogether with built with bees that had succeeded in coming in that far, but failed to get in. They eclipse was over.-L'Apiculteur.

#### WINTERING.

According Dr. Mirbeck, the bees of a 50 grams of vapor every day. This must be disposed of in some way or other; if not, the dampness of the hive would be disastrous. A sufficient ventilation will do the work. For that purpose the entrances should be of sufficient size. If not there should be above the frame a cushion of hay or other absorbant-Revue Electique.

L. B. Smith tells Rural readers that The Apiarist is the fourth bee journal that has been started in Texas. Mr. the tree on which the swarm has Smith's knowledge of the history of alighted or in any other way.-L'Apri- Texas bee journalism is, evidently, incomplete.

#### THE

PUBLISHED MONTHLY

# Proprietors

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The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages. if any are paid. Those who wish the paper dis-continued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter,

#### Our Fifteenth Birthday.

With this number THE AMERICAN its editors to renewed efforts and a means of advertising. greater determination to pursue their labors with unswerving fidelity to the lied industries.

wish every reader of THE AMERICAN lieved to be very remunerative.

BEE-KEEHER a bountiful honey harvest AMERICAN BEE-KEEPER for 1906. Every bee-keeper is invited to make use of our columns in any way tending to interest, instruct or other-THE W. T. FALCONER MFG. CO. wise assist his fellow craftsmen in the common effort to place the apiarian industry upon a more substantial and profitable basis, both as a domestic hobby and as a commercial enterprise. A mutual exchange of ideas results in a general dissemination of knowledge that will ultimately place bee-keeping in its deserved position of prominence.

We are truly grateful for the kind interest of our patrons who have assisted in extending the circulation of THE BEE-KEEPER, and thereby have enabled us to materially improve the standard of the journal from time to time. In thus assuring them of our gratitude and wellwishes, we thank them again, in anticipation of their continued favors throughout the present year.

The American Bee Journal is slowly falling into line, and becoming somewhat "like other folks," these days. time ago it abandoned its distorted method of spelling, and now it condescends to publish the address of each contributor, just as all other bee journals do and have done, for the convenience and information of their subscribers. We congratulate the Journal upon its happy awakening.

Pratt's golden bees secured first prize at the Liege, Belgium, show, season of 1905. This is the fourth grand prize BEE-KEEPER enters upon its sixteenth carried off at the European exhibitions year of continuous publication. The by the stock of this enterprising Pennthousands of commendatory letters re-sylvania breeder. For those who have ceived from honey producers and the the stock, and cater to the foreign trade constant increase in circulation inspire these great shows afford an excellent

Some "bee-keepers," it appears, keep craft, regardless of the interests of al- bees for comfort. Comfort is quite generally conceded to be an agreeable We look hopefully forward to, and commodity; but not so generally beThe Truth About Caucasian Bees.

ings for Nov. 15th as follows:

"In the American Bee-Keeper for offered to the American public," and less a false impression be given concerning this noble race I desire to enter a most emphatic protest.

to believe pretty strongly that the gentleman who gave the above charactercasians.

Caucasians, or is he taking the opinion of the habits of the honey-bee. of someone else? My experience with bees, but, on the contrary, a valuable ians and not a hybrid." acquisition to present valuable races.

lated without smoke, veil or gloves.

due to carelessness in leaving some first sting.

to give such a race a black eye?

told that when the Italians were first Under foregoing beautiful title, D. discovered or brought out in this coun-Everett Lyon, Ph. D., writes in Glean- try they were denied the qualities we now know they possess.

"Perhaps the friend who writes October I notice that the new Caucas- against Caucasians imagined he had ian bees are referred to as 'the most Caucasian bees when, perchance, they worthless of bees that have ever been might have been a cross, or the queen had not been purely mated before he got her.

"I personally am inclined to believe that he did not have any real Caucas-"Without hard feeling I am inclined ians at all. I know they are far from being aworthless race.

"Mr. E. L. Pratt, of Swarthmore, ization of Caucasians is entirely igno- Pa., has some 38 colonies of pure Caurant of an acquaintance with them, or casian bees, and he has not found them else he never possessed the pure Cau- worthless; and his experience and word have great weight with me, for I con-"Will the writer of the above quoted sider him one of the brainiest bee-keepparagraph tell us whether he has act- ers in this or any other country, and ually handled and studied the habits of without an equal in practical knowledge

"Give the Caucasians a chance, and them is just the opposite, and I know before anyone condemns them let him that they are not a worthless race of be sure that he has had pure Caucas-

The caption under which Dr. Lyon "Mr. Frank Benton, the government writes would lead his readers to anticiapiarist at Washington, in a letter to pate something more than a mere reitthe writer states that they are the gen- eration of the stale and threadbare tlest of all races, and good honey gath- claim of gentleness. This, however, is erers, holding their own with the Ital- the only claim of merit which he cites ian in this respect, and can be manipu- as a result of his own experience, and since this one point, which is of minor "This season I gave them a thorough importance, has probably never been trial as to gentleness-pulled hive lid disputed, Dr. Lyon's attempted aroff, jarred the frames, and, even when raignment of the editor of the Amerithey were being robbed during late fall, can Bee-Keeper appears very flat indeed.

Dr. Lyon seems to fear that we are honey exposed—even under these con-taking someone else's opinion as a baditions I shook them from their combs sis for our belief. In a nutshell he in front of their hives to test their tem- thinks we are talking of something in pers, and I have yet to record their regard to which we know absolutely nothing. Then he proceeds to bolster "Now, why will a magazine like the up his "noble race" by citing another's American Bee-keeper come out and try written testimony, instead of telling us just what the noble race has accom-"I suppose it is because they are a plished under his own personal manipunew race (I mean, of course, the bees,) lation. Are you "taking the opinion of that they are thus attacked, and I am someone else, doctor?" All that has appeared in the editorial columns of BEE-KEEPER share his exalted opinion The American Bee-Keeper in regard to of this "noble race.". this subject has been written from actual experience with imported stock, but that experience was too limited to was, however, quite sufficient to suggest very forcibly the possibility of their worthlessness, hence we deemed it our duty to advise caution, and, until Dr. Lyon can present something more substantial in their favor than gentleness and a report at second-hand, that they are good honey gatherers, we are Caucasians broadcast over the continent.

Dr. Lyon devotes much space to an expression of his personal ideas of the the way, it may be noted, are not particularly flattering, since he would lead ten without knowledge of the subject. Under the glorious stars and stripes it comes by the production of honey.

as a "new race," we commend to him and vigorous action. a reading of the letter from Mr. J. B. Hall in this number of THE BEE-Caucasian race.

the foregoing if he would have THE for only one dollar, in advance.

#### Another New One.

It's a dull season in Texas when that justify a condemnation of the race. It state cannot record the advent and demise of one or two bee journals. The latest is The Apiarist, of Waco, published by Phillips & Huff. It contains 24 pages and the subscription price is \$1.00 a year.

Like nearly all of its predecessors, The Apiarist claims for itself the desthey are good honey gatherers, we are tinction of being "the only bee journal still inclined to repeat the advice, as in the South." THE AMERICAN BEEwell as to regard with disapproval the KEEPER sincerely trusts that The action of the government in spreading Apiarist may find its journalistic trail strewn with more nectar-secreting flowers and less cactus thorns than have been encountered by the many other "only" ones who have found an eternal editor of the Bee-Keeper, which, by resting place in the "Lone Star State."

"Glucose and Its Uses," is the caption his readers to believe that we had writ- under which Mary Hinman Abel very exhaustively discusses our greatest competitor, in the January Delineator. The is the Doctor's benign privelege to muse magnitude of the glucose industry in the to his heart's content, and to form United States, according to this writer, opinions galore, and we would not de- rather puts the present honey producprive him of the privelege if we could. tion in the shade. She says that in the Meantime, we are thinking too-won- glucose factories of the United States dering if Dr. Lyon ever produced a car-thirty-five million bushels of corn are load of honey, or if his apiarian exper- used, and cites the manufactures as auience has fitted him to pass competent thority for the statement that about onejudgement upon any race of bees, from half million barrels of glucose are conthe viewpoint of one whose livlihood sumed annually as table syrup. Little is the wouder that the "Honey Pro-As Dr. Lyon regards the Caucasians ducers' League' felt the need of prompt

The possibility of publishing a really KEEPER; and we take occasion to in- good monthly bee journal at less than a form the Doctor that it was in Mr. dollar a year has been questioned by some Hall's apiary, and with the bees re- of our worthy contemporaries. The ferred to that the editor of THE BEE- reader is invited to look this number KEEPER received his introduction to the over very carefully and to compare it critically with those that cost a dollar. Dr. Lyon will have to put forth a de- Bear in mind that we will send the cidedly more "emphatic protest" than American Bee-Keeper three full years We have repeatedly stated that our experience with the Caucasians has been too limited to justify either condemning or declaring in favor of the race. Any person who, with one or two seasons trial with one or two colonies of any new race, will pronounce judgement upon that race, is obviously a tyro or sadly deficient in some natural qualifications that are essential to apiarian success.

It would appear to be the part of wisdom to determine very thoroughly the qualities inherent therein before seeding the land broadcast with the blood of a black, unknown race of bees. Test all things, and "hold fast that which is good"

The Apiarist, the new Texas bee journal, invites secretaries of bee-keepesr' associations to send in minutes and programs for publication; and says that is what the Apiarist is published for. It should affiliate with The Canadian Bee Journal.

It would be a good thing for the National Association if they would make every publisher, editor, manufacturer or dealer in supplies or their employes or agents ineligible to any office in the association. It would be equally good for the rest of the craft.

The Christmas number of Gleanings contained 100 pages, including a handsomely executed cover in colors. Even though rather more than one-half of its space is taken up by advertisements, they are interesting, and this particular number is doubtless the most elaborate bee journal that has ever been issued in America.

The Bee-Keeper arises to ask what constitutes the true "nobility" of beedom? If it is the quality of reluctance, as to the stinging habit, let us yield the honor to "la abe ja de tierra," for they cannot sting.

#### A Bee-Keeper's Woes.

The New York Tribune is responsible for the following story: A German beekeeper undertook to carry some of his choicest bees to a bee show. He took a train in Hanover with his bees in a basket at his feet. The bees escaped from the basket and crawled up his trouser legs. His actions soon aroused suspicions in the hearts of two women who occupied the same compartment with him. They pulled the bell cord and stopped the train. When the bee fancier explained the situation he was placed in an empty compartment to have it out with the bees all by himself. Here he removed his trousers and began shaking them out of the window to free them of the swarm. Unfortunately they caught a telegraph pole and were swept away, bees, money and all. At the next station the irate station master brought forth the reluctant bee fancier in a rug, and he pawned his watch to acquire decent raiment to walk back along the line in search of his bees and his trousers.

Officers elected to serve the National Bee-Keepers' Association during 1906 are as follows: President, C. P. Dadant; vice-president, Geo. E. Hilton; secretary, W. Z. Hutchinson; general manager, N. E. France. F. Wilcox and C. A. Hatch received the largest vote for directors.

The Review wisely advises "a little caution" upon the part of those who think of introducing Caucasian bees.

The Chicago convention is said by those in attendance to have been a "stem-winder."

The Honey Producers' League is reported to have "gone dead." The good die young."

Honey producers as a rule keep bees for the honey they produce.

#### The American Bee-Keeper Circulates.

Our numerous friends and patrons, or less of the bee-keepers of every the Dominion of Canada, the various republics of Central and South America and the West India Islands. yond the seas The Bee-Keeper goes regularly to bee-keepers in Germany, Austria, Holland, New Zealand, England, Belgium, France, Ireland, Scotland, Switzerland, Japan, Sweden, Italy, Spain, Australia, Hawaii, Tasmania and various parts of Africa.

Gratified as we are by this progress, we are not yet content, and hopefully anticipate the addition of several thousand subscribers during 1906.

The kind assistance of every present patron of The Bee-Keeper is respectfully solicited, in order that we may the sooner evolve our ideals in the production of a Twentieth Century beejournal.

#### Thinks Caucasians Promising.

Mr. John W. Pharr, Barclair, Texas, writes that he is fovorably impressed with a Caucasian queen received early in September last, though he realizes that his experience with this race is yet too limited to warrant the formation of any settled opinion. He says this queen is prolific, her bees good workers, and that he has noticed that at times when other colonies were dormant the Caucasians were active. This all goes to prove that with Caucasians as with other sary to determine the actual truth.

One swallow isn't a whole summer.

#### It's all in the Queen.

A contributor to our esteemed conwho have rendered such noble service temporary, L'Apiculteur, of France, in behalf of THE AMERICAN BEE- reports that with one exception all his KEEPER, will doubtless be pleased to hive face the east. The one exception learn that we begin Vol. XVI this faces south, and is somewhat shaded by month with a most gratifying list of a tree. The position of the hives he subscribers—a list that includes more considers noteworthy for the reason that the hive having its entrance to the state in the Union, every province of southward always yields a greater quantity of surplus honey than any of the others.

> It is not improbable that the shade may have a beneficial effect; but there is little doubt that if this apiarist will turn the entrance of this particular colony to the north, cast or west, its superiority will still be evident. If he were to stand the thing on its head, yet it would outstrip its competitors in the honey-gathering contest. If he will exchange queens with some one of the inferior producers, however, he will doubtless find that the favorable record will have followed the queen. Blood tells.

C. W. Dayton, Chatsworth, Calif., writes: "Say, did you know that these California mountains is the best place in the world for queen-rearing? I only rear for my own use. Bees fly up and down so much that it gives them great lung power. Then, also, the high altitude makes the air very rarified, which calls for still more lung and wing power. The sages are all deep-tubed-almost, if not quite equal to red clover-and the poor years show which are the excellent colonies." We have just consulted our Queen-Breeders' Directory and are surprised to note that California has no representation therein. It is rather remarkable that some enterprising breeder races, some strains are better than has not taken advantage of such propiothers. We shall be pleased to hear tious (?) conditions in the California from all who have tested the Caucas- mountains and benefitted by the publicity ians. It is the truth we want; and more to be derived for \$3.00 a year in the experience with this race will be neces- American Bee-Keeper Directory, and thus become immensely wealthy before this time.

#### CINCINNATI NEWS NOTES.

Mrs. Geo. Hutton, of Carthage, Ohio, is very intensely interested in chickens, the raising of mushrooms, and has now taken up bee keeping. We know she will be successful and enjoy this hobby.

Mr. Wm. J. Gilliland, former secretary of the Hamilton County Bee-Keepers' Association, was re-elected mayor of Silverton, Ohio. Mr. Gilliland is a native of the Emerald Isle, and is every inch a bee-keeper.

Mr. Alois Lampert, of Norwood, a beautiful suburb of Cincinnati, has had a case of the bee fever. I am beginning to think the disease is contagious. We must be sure to give his case our attention the first thing next spring.

Mr. A. B. Bader is a jolly good fel-w. His wife has bees in her bonnet, and he declares she will not let him rest unless he promises to buy a colony or two of bees next spring. Alright, "Butch," we will attend to the bees for your good wife next spring.

Mr. John B. Peaslee, former superintendent of our public schools, last spring two twc-frame residence. Early in the fall, from one hive, he extracted some forty pounds of fine honey. Maybe he can't talk bees; you ought to hear him.

Mr. Chas. F. Droste, of Price Hill, this city, former state senator, found a swarm of bees last summer in a hallow tree on his place, and now has a bad case of the fever, of which he positively can not be cured. However, the fever will be allayed next summer after honey is relaxing to some extent, owing to the mahe has bought about fifteen colonies.

Miss E. Herzog, residing in one of our pretty suburbs, and every inch a practical bee-keeper, sold last season \$75.00 worth of honey from five hives. At our county fair last summer, this young lady made an exhibit of both comb and extracted honey, and carried the first prizes. Had her bees only made more honey, in all probability she could have sold \$200 worth of honey, for she tells us people stop at her home in carriages and others telephone her for honey, and she is kept busy telling them she will have more honey next season.

Mr. Wm. Cunningham, of Fort Thomas, Ky., that famous spot some eight miles from our city, likes bees, but to 30c per lb.

they don't like him. He claims that his wife has more courage than he. Last summer the writer visited at his home and worked with his bees. Mr. William stepped away back to the fence; well, he went as far as he could without hurting my feelings. His good wife was brave and sat down on the door step leading to her kitchen, but unfortunately happened to sit down on a bee. Say, Mrs. Cunningham, I won't say the rest, but it would have done you all good to have seen Mr. William laugh. FRED W. MUTH.

#### HONEY AND BEESWAX MARKET.

Buffalo, Dec. 6.-The supply of honey is only fair and more needed. The demand is good for fancy. We quote our market today as follows: Comb, fancy, 12-14, No. 2, 8-10c. Extracted, 6-8c lb. in 5 gallon cans. Beeswax 28-32c. Really fancy one-lb comb is wanted, but lower grades move slow and have to be cut accordingly. Batterson & Co.

Chicago, Dec. 6.-The trade in best grades of white comb honey has been fair, yet retailers take only small quantities at a time. This honey brings 14-15c, other grades are difficult to place at 1 to 3c less per lb. Extracted selling at 7-7½e for white, and amber 6½-7c, dark 5½-6. Beeswax when clean and of good color, 30c per lb. R. A. Burnett & Co.

Boston, Dec. 9.-We quote you our market as placed them in hives on the top of his follows; Fancy white, 16c; A 1, 14-15; No. 1, 14c; No. 2, 12-13c. Extracted 6-8c, according to quality, with a fair demand. The very large quantities of honey carried over from last season is undoubtedly affecting the sale and prices.

Blake, Scott & Lee Co.

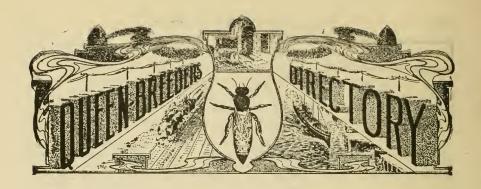
> Kansas City, Mo., Dec. 7.—The supply of honey is good. The demand is fair. We quote our market today as follows: Comb, \$3.25 per case. tracted, 6c and 61/2c. C. C. Clemons & Co.

Cincinnatti, Nov. 24.-The demand for comb honey is relaxing to some extent, owing to the majority of the trade being well supplied. All fears of a comb honey famine have been allayed. We quote fancy white comb honey at 14c to 16c per 1b. Extracted honey is in fair demand. Quote amber, 5½ to 6½c, according to the package and quality. Fancy white and white clover extracted at 6½ to 8½c. We are paying 28½c per 1b delivered here for choice yellow beeswax. (Notice: We wish to call the attention of the producer to the above honey quotations, who mistakably expect to receive these prices for his product. The above are our selling prices for honey.)

The Fred W. Muth Company, 51 Walnut street.

51 Walnut street.

New York, Dec. 6-Comb honey-The demand continues to be fair for all grades. Prices practi-cally remain the same. We quote fancy white at 14 to 15c; No 1, 13c; No. 2, 12c; buckwheat 10c per lb. Extracted honey is in good demand, especially California, with large supplies. We quote white, 6½ to 7c; light amber, 5c; buckwheat, extracted, 5½ to 6c per lb. Beeswax, firm and steady at 29 Hildreth & Segelken.



#### ONE-HALF INCH SPACE ONE YEAR ON THIS PAGE, \$3.00

W. J. DAVIS, 1st, YOUNGSVILLE, PA. breeder of choice Italian Bees and Queens Quality, not quantity, is my motto.

DEWEY'S HARDY HONEY GATHERERS.—Reared under swarming impulse throughout the year. Large, strong, healthy. Send for card, "Can I Control Swarming?" Original. Untested, 75c., 6 for \$3.00; tested, \$1.50, 6 for \$5.00. Choice, \$2.50. High grade breeders, \$2.00 to \$10.00. E. H. DEWEY, GT. BARRINGTON, MASS.

QUEENS HERE.—We are still asking you to give us your trade.We sell Italians, Golddeus and Carniolans at 75e for untested and \$1.00 for tested. Prices on quantities and nuclei upon application. JOHN W. PHARR, BERCLAIR, TEXAS.

Jan. 6

SWARTHMORE APIARIES, SWARTHMORE, PA.—Our bees and queens are the brightest Italians procurable. Sarisfaction guaranteed. We are breeding the Caucasians absolutely pure from direct imported stock.

W. W. CARY & SON, LYONSVILLE, MASS.
—Breeders of choice Italian bees and queens.
Imported Leather and Root's Red Clover strains.
Catalogue and price list FREE,

MOORE'S LONG-TONGUED STRAIN of Italians become more and more popular each year. Those who have tested them know why. Descriptive circular free to all. Write J. P. MOORE, L. BOX 1, MORGAN, KY.

HONEY QUEENS AND BEES FOR SALE.—
1 extracted 300 pounds per colony in 1903.
THOS. WORTHINCTON, Leota, Miss. Aug 5

PUNIC BEES.—All other races are discarded, after trial of these wonderful bees. Particulars post free. JOHN HEWITT & CO., Sheffield, England.

THE A. I. ROOT CO., Medina, O.—Breeders of Italian bees and queens.

THE FRED W. MUTH CO, 51 Walnut St., Cincinnatti, Ohio. Standard Bred Red Clover Three-banded Queens, Golden Italians and Carniolans. Safe arrival guarantee. Sedd for circulars.

QUEENS from Jamaica any day in the year. Untested, 66c; tested, \$1.00; select tested, \$1.50. Our queens are reared from the very finest strains. Geo. W. Phillips, Sav-La-Mar P. O. Jamaica, W. I.

D, J. BLOCHER, PEARL CITY, ILL—Breeder of Fine Italian Bees and Queens. Our stock speaks for itself. Safe arrival of all stock guaranteed. Free information. Jan6

LAWRENCE C. MILLER has sold out his "Providence Queen" business to ull & Williams, Providence, R. I. See large ad elsewhere.

JOHN M. DAVIS, SPRING HILL, TENN.— Has greatly enlarged and improved his queenrearing facilities. Two unrelated Carniolans and a dark leather Italian lately imported My own strains of three-band and golden; "Moore's" longtongue; Doolittle's golden; all selects. Carniolans mated to Italian drones when desired, No disease. Circular free.

WE are now booking orders for Providence Queens for spring delivery. Cull & Williams, Providence, R. I.

C. H. W. WEBER, CINCINOATI, OHIO—(corner Central and Freeman Aves.)—Golden Yellow, Red Clover and Carniolan queens, bred from select mothers in separate apiaries.

HOOPER BROS.' Italian Queens reared in the West Indies are the most prolific and give the best results available any time of the year. Write at once for information to Kingston, Jamaica, B. W. I., Box 162

#### HONEY DEALERS.

Under this heading will be inserted, for reliable dealers, two lines one year for \$1.25. Additional words, Izo a word. No annuncement can be accepted for less than one year at these prices.

#### OHIO.

C. H. W. WEBER, Freeman and Central Aves., Cincinnati, Ohio. If for sale, mail sample and state price expected, delivered in Cincinnati. If in want, write for prices, and state quality and quantity desired.

WE are always in the market for extracted honey, as we sell unlimited quantities. Send us a sample and your best price delivered here. The Fred W. Muth Co., 51 Walnut St., Cincinnati, O. 5-5

#### COLORADO.

THE COLORADO HONEY PRODUCERS' ASSOCIATION, 1140 Market St., Denver. Colo.

### Cent-a-Word Column.

AGENTS WANTED—To sell advertising novelties, good commission allowed. Send for catalogue and terms. American Manufacturing Concern, Falconer, N. Y.

THE BUSY MAN'S METHOD OF REARING GOOD QUEENS—This leaflet describes the method used in rearing the Hardy Honey Gatherers (read elsewhere), and if carefully followed will produce queens of great merit. No loss of brood, no cell-cups, and but little time required. Large queens under swarming impulse. Nothing artificial about it. Every queen breeder needs it. Price 25 cents. E. H. DEWEY, Gt. Barrington, Mass.

INCREASE is a handsome little book telling how to form new colonies without breaking working stocks. A simple, sure, satisfactory plan, 25c. Baby Nuclei tells how to mate many queens from sections with a mere handful of bees; 42 pages, 20 pictures, 50c. Cell Getting tells how to save labor in rearing queens, 50 cents. Queen rearing outfits. Golden all-over and Caucasian Queens. Circulars free. E. L. PRATT, Swarthmore, Pa.

# Bee-Keepers

We carry a full line of FAL-CONER'S BEEKEEPERS' SUP-PLIES, and that means THE BEST, and sell them at factory prices, f. o. b. Savannah, Ga. Order from us and save freight charges. Catalogue free for the asking.

Harden & Rourk, Savannah, Ga.

#### A CARLOAD OF PAPER

was necessary to print the

#### 1906 LEWIS CATALOG

now out. Send for one at once.

# **Agents Wanted**

For Lewis Goods by the Carload

For Maine, New Hampshire, Vermont, Massachusetts, Connecticut, Rhode Island, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, Louisiana, Southern Ohio.

Liberal territory given.

For further particulars address Home Office.

### G. B. Lewis Co.

Manufacturers of Bee-Keepers Supplies Watertown, Wis., U. S. A.

# Homes in Old Virginia.

It is gradually brought to light that the Civil war has made great changes, freed the slaves, and in consequence has made the large land owners poor and finally freed the land from the original owners who would not sell until they were compelled to do so. There are some of the finest lands in the market at very low prices, lands that produce all kinds of crops, grasses, fruits, and berries; fine for stock. find green truck patches, such as cabbage, turnips, lettuce, kale, spinach, etc., growing all the winter. The climate is the best all the year around to be found, not too cold nor too warm. Good water. Railroads running in Healthy. every direction. If you desire to know all about Virginia send 10c. for three months subscription of the VIRGINIA FARMER to Farmer Co., Emporia, Va.

### 3 and 5-Banded ITALIAN and CARNIOLAN QUEENS

Say, friends, you who have supported us during the past season, we desire to express our thanks for your patronage in the past, and re-spectfully solicit a continuance of your valued favors through the season of 1906.

Our queens now stand upon their merits and former record. We are preparing for next season, and seeking the patronage of large apiarists and dealers. We do not claim that our queens are superior to all others, but that they are as good as the best. We will furnish from one to a thousand at the following prices: Tested, of either race, \$1; one untested, 75c; 5 for \$3.25; 10 for \$6; 15 for \$8.25; 25 for \$12.50; 50 for \$23.50; 100 for \$45. For descriptive circulars address.

#### John W. Pharr, Prop.,

New Century Queen Rearing Co., Berclair, Goliad Co., Texas.

#### Read This and Do it Quick.

All One Year \$1.40 Without Gleanings 80 cents

The Modern Farmer Green's Fruit Grower Agricultural Epitomist The Mayflower and Ten Beautiful Flowering Bulbs Gleanings in Bee Culture American Bee-Keeper.

Without Gleanings and American Bee-Keeper 50c. Good only a short time. Address.

The Modern Farmer, Box 15 St. Joseph, Mo. The clean farm paper.

# WANTED

Every person who keeps pigeons, Belgian hares, cavies, dogs, cats or a pet of any kind to send for a free sample of the

#### PET STOCK PAPER,

Address Box 20, York, Pa.

Big Magazine One year FREE to quickly introduce it. Many prefer it McClure's. Send 10 cents to help pay postage. AMERICAN STORIES, Dept. H. D., Grand Rapids, Mich.

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For particulars address

W.H.Putnam,

RIVER FALLS, WIS.

To Subscribers of

The American Bee-Keeper and Others?

Until Further Notice

We will send the

# Country Journal

to any address in the U.S.A. one year for 10 cents, providing you mention the American Bee-Keeper.

The Country Journal treats on Farm, Orchard and Garden, Poultry and Fashion. It's the best paper printed for the price. Address

The Country Journal, Allentown, Pa.

We will send The American Bee-Keeper three full years for \$1.00.

# Our Special Premium Offer.

We have been successful in closing a contract with the Selden Pen Mfg. Co., of New York, whereby for a limited time we can supply a guaranteed

# \$2.00 Gold Fountain Pen, "The Celtric Model 1"

and the American Bee-Keeper one year for only 90c to every subscriber, old or new. The pen will be forwarded immediately upon receipt of the money. It is made of the best quality of hard rubber in four parts, and fitted with a guaranteed irridium pointed 14-k GOLD PEN. The "fountain" is throughout of the simplest construction and can not get out of order, overflow, or fail to supply ink to the nib.

"A Fountain Pen is a Necessity of the 20th Century."

It dispenses with the inconvenient inkstand and is always ready for use.

"THE CELTRIC MODEL 1" bears the manufacturer's guarantee that the pen is solid GOLD, 14-k fine. If it does not prove satisfactory in every way we will exchange it for another, or return the fifty cents additional upon return of the pen.

This is an unusual opportunity to secure, at a very low price, an article of superior quality that is coming to be essential to the comfort and convenience of every one. Remember this offer is for a short time only.

The American Bee-Keeper, Falconer, N. Y.

# Chance

Of a Life Time.

100 WANTED TO RAISE BELGIANS

Send for particulars and sample copy of the only

# Belgian Hare Journal

Published in America.

Judge R. J. FINLEY,

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# Special Notice to Bee-keepers.

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Money in Bees for You Catalog Price on

# Root's Supplies

Catalog for the Asking

F. H. Farmer, Up First Flight.

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# AGENTS YOU CAN Do It. Medallions "Peuro or Pearl" New Me-

dallions. Quick sellers. Big Money. Write at once. Special territory given. Largest Medallion Comp'y in the world. Agents' supplies. Novelties up-to-date. Write now. Universal Manufacturing Co., Pittsburg, Pa.

# The Miller Wax Extractor Is a Success

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The highest results. The lowest Price, \$8, f. o. b. Providence.

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# Cull & Williams

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# Big Song Book

"Polly, I Love But You," words and music; "Piking the Pike," "Just Because I'm from Missouri," "Hiawatha," "Navajo," "Bedelia," "Josie," "Only a Factory Girl," "Flirting at the Seashore," "The Little Brown Man of Japan," "Come Down, Miss Malinda," "Ma Ragtime Ebony Belle," and 44 other popular songs, all in one book, and sent postpaid for only 10 cents. We will also send a coupon good for 10 cents to everyone mentioning in what paper they saw this ad.

This is a Special Offer to Introduce our Goods, so send at once

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To a New Subscriber

THE

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Among the Departments represented in the Bee Journal are these: Editorial Notes and Comments, Miscellaneous News Items, Contributed Special Articles, Opinions of Some Experts, Proceedings of Conventions, Our Bee-Keeping Sisters, Mr. Hasty's Afterthoughts, Dr. Miller's Answers to Questions, Honey and beeswax Market Quotations.

Every Bee-Keeper, whether having one colony or 100, should read the old American Bee Journal every week.

Only \$1.00 a Year; or 20 cents for a trial trip of three months (13 copies), to a new subscriber. Sample copy free. Ask for it.

George W. York & Co.

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Send us 10 cents in silver, together with the names of ten persons who get mail at your postoffice who are interested in MUSIC, and we will send you our handsome magazine one year. We receive hundreds of new subscriptions daily from persons who think our magazine a bigger bargain than Harper's, Munsey's, Ladies'Home Journal, or McClure's. This a special offer for a short time only.

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Our subscription price may advance to \$1.00 per year soon.

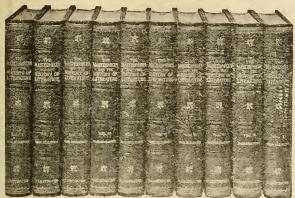
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Address, Dept. H. B. Berges Publishing Co.

Grand Rapids, Michigan

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Of Slightly Damaged Sets



A T the close of a very busy season we find on hand 68 sets of "The Masterpieces and History of Literature," in which a few volumes are slightly marred-not enough to impair their real value, but sufficiently to prevent their shipment as perfect stock at the regular price, \$35.00 a set. Rather than go to the expense of rebinding these few sets, we prefer to close them out at about the actual cost of the sheets and on little easy monthly payments.

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This is the best and most satisfactory work of its kind ever published. It contains complete selections from all the leading authors, a history of literature, short biographical sketches of authors, critical essays on the literature of each period, etc., etc. The work is edited by Julian Hawthorne, assisted by many of the foremost writers and critics of the day. It is complete in 10 massive volumes, which contain 5,000 pages and over 1,000 illustrations, including portraits of famous authors. The binding is in half leather, semi-de-luxe style.

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# FREE—for 5 Days

We will send you the complete work, 10 beautiful volumes, for your leisurely examination, if the attached coupon is mailed to us promptly. Note our liberal offer. You mo risk whatever. The regular price of the set is \$35.00; Clearance Sale price, \$16.50; payable \$1.00 a month. Mail the coupon to-day; to-morrow may be too late.

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78 Fifth Avenue, New York

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Please send me, prepaid, for examination "The Masterpieces and History of Literature," in 10 volumes, bound in half leather. If satisfactory, I will pay you \$1 00 on acceptance and \$1.00 a month thereafter until \$16.50 has been paid. If not satisfactory, I will notify you so that you may arrange for its return at no expense to me whatever. (Dig. 7-8-05)

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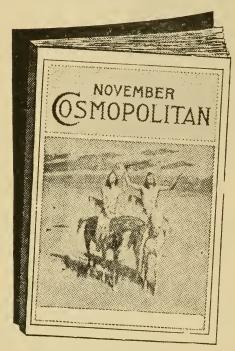
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Read every word of this announcement, for it is the opportunity of years. This year several magazines have increased their subscription price, which shows how much greater this offer really is. Only a limited number will be sold at the price, therefore we advise everyone to accept this without delay. When we have received a certain number we shall withdraw the offer.

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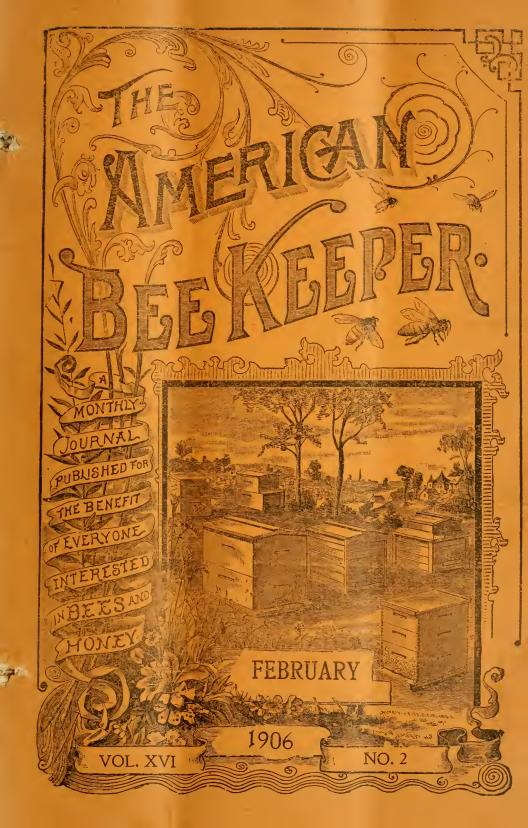
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Vol. XVI

#### FEBRUARY, 1906.

No. 2

#### HUMIDITY.

A Philosophical Discussion of Its Influence on Bee-Life.

By ALLEN LATHAM.

THE ENTIRE subject of the part that have studied the actions of bees under economy of bee-life teems with inter- and see what developments arise, and est, and would be too big a subject for seek explanation for what can be seen. one brief article. It is my purpose to I am confident that many will conclude treat in a partial manner the special with me that excessive moisture may part taken by water as it exists in the become actually painful to bees, causatmosphere. There is a widespread but ing uneasiness and evident distress. less I am in error, have concerned them- term muggy? selves with the why of this, resting satisfied with the bare fact.

necessity for much of the work which nied by excessive humidity. of death itself to bees, therefore, it sixty. might be safe to say that water is the I saw a marked instance of the phehoney bee's worst enemy.

water and water vapor plays in the a high atmospheric humidity. Do so,

rather vague knowledge that humid air Right here is a possible explanation concerns the welfare of the bee-possi- for the ill-nature displayed by bees on bly affording benefit here, but acting certain days. For are bees ever more harmful there. Few bee-keepers, un- spitefully cross than on those days we

Heat has usually been given as the cause of the hanging out of bees, and Though water is so important to bee no doubt it often has much to do with life, as to all forms of life, and though that phenomenon. Yet intense heat, a humid air may be desirable in the if the air is dry, will not cause so genbrood nest, taken all in all water, in eral clustering outside the hive as will one form or another, brings about the a much lower degree of heat accompabees have to perform, and is the source than that, bees will cluster out when at times of not only distress, but even the thermometer does not stand above

nomenon last spoken of in the spring I wonder how many of my readers of 1905. One morning late in April or

in early May I observed that every col- or possibly more, of the ventilation of the air had become no colder?

And so it went on all summer. Bees but stayed inside on hot dry days.

one useful fact, namely, that no safe against it is the fact that bees try to estimate can be made of the strength rid the brood-nest of moist air. Probof a colony of bees by the size of the ably a most careful and exhaustive cluster hanging out, unless, indeed, at study of the matter would reveal the the same time many colonies are com- truth that there is a certain humidity pared one with another.

thing, namely, that great humidity dis- form humidity. tresses bees. Finding it difficult to get would assist their natural functions.

it must be taken care of by the urinary discarding the skin and pulp. organs. The latter organs being ill comes to the bee.

ony in a row of eight was hanging out, the hive, as performed by the bees the clusters varying from the size of a themselves, is to exchange the humid good prime swarm down to a bunch the air of the hive for the drier air of the bigness of one's fist. This small cluster outside. It is a well-known fact that was from a hive in which there were breeding brings about increased moisnot enough bees to cover well three ture in the hive, and that simultaneouscombs. Why should they cluster out, ly with increased breeding comes infor surely they had plenty of room and creased fanning at the entrance. That the morning was not warm? Later in bees require but slow exchange of air the day the mists disappeared, the air for the purpose of oxygenation seems became dry, and even the large cluster either to have escaped the notice of went into the hive. Why was this, for most observers or at least to have been considered of small moment.

It is usually stated that bees need hung out in huge masses on humid days moisture for successful breeding, and even when the sun was not shining, such would certainly seem to be the case: but that the statement has ever The continued observation told me been proved does not follow, and set off which is best, and that the activities of I think, too, that it told me another the bees are bent to preserve that uni-

The power which bees have of throwrid of the water in their systems after ing off water is in itself phenominal, their usual manner in the hive, because and, when one considers that, he is led of the excessive humidity, they stayed to wonder that a bee can suffer in a huoutside where the circulation of air mid atmosphere when not engaged in active work. I have in mind, of course, It seems that the urinary organs of the power which the bee has of ridding the bee are not able to do as much the nectar as gathered from the flowers work in the way of taking care of water of its large percentage of water. It is as those of vertebrates, the respiratory possible that the belief is still rather organs probably doing a great share of prevalent that the honey is placed in this work. Obviously, in a dry atmos- cells while still thin and there evaporaphere the respiratory organs can easily ted after the manner in which we dry do most of the work, and thus relieve fruits-but the truth is far otherwise. the delicate urinary organs of the bee; The way of the bees is more after the but in humid air the respiratory organs manner which we have of evaporating can no longer throw off the water, and (?) an orange in a few minutes and then

The observation hive tells us that the adapted for much of this work, and bee gets rid of the moisture in the there being no suitable repository for honey while the honey is held in her the excreted water, great discomfort own body, and that the honey does not find a permanent resting place in the It is safe to assume that 95 per cent, cells until well cured. The very fact laboring insects in the hive, air into of the bee-hive. which they can little by little unload moisture from their respiratory organs.

To offer an illustration, by no means intended as exact, it seems as if the bee was able by some delicate process to separate the water from the honey something after the manner that we can separate buttermilk from butter. The spiracles of the bee carry away the water in the form of vapor, while the buttermilk leaves the churn as a liquid stream. If the level of the buttermilk outside the churn could reach the level inside, the flow would cease; if the humidity of the air in the hive reaches a certain point, then no more moisture can leave the body of the bee by way of the spiracles. Is it any wonder, then, that the bees put forth such strenuous efforts to keep up the circulation of air in the hive in the hours following a heavy honey-flow? The new air becomes warmer in the hive, becomes thereby drier, and hence acquires the power of taking up more water.

To cite still another instance in connection with the effect of moist air upon bee-life: When the south wind comes in winter time, bringing with it air of high humidity, the bees, especially in the cellar, become exceedingly restless. Heat is generally blamed for this restlessness, but unjustly. him who doubts this last statement bring the celler to the same temperature with dry air.

This article, with its various phenomena brought under one head, has been rambling. To epitomize my theme, I the wire is cut to make the desired would say: Humidity brings discom- shape. The top or straight edge of the fort to bees; that this discomfort causes wire cloth should be the selvage and is restlessness, and sometimes fiery tem- the edge sewn to the hat brim; the other

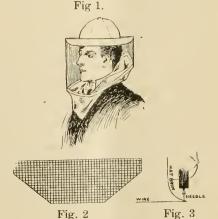
that honey is deliquescent in humid air, per; that hanging out and fanning are and that the atmosphere of the hive is only acts to relieve the humidity within rather humid, will logically bear out the hive; that bees have a power pewhat has been seen by a few observers. culiar to themselves of eliminating wa-The fanning by the bees is not so much ter from their systems; that this power to bring currents of drying air over the is correlated with the humidity of the cells of honey, as many apparently be- atmosphere; and finally, that humidity lieve, as it is to bring dry air to the plays an important part in the economy

#### BEE VEILS.

#### By A. C. Miller.

HOW MANY sorts and kinds of arrangements pass for bee veils and rangements pass for bee veils and how few of them are entirely satisfactory. Some are heavy, some wrinkle and are hard to see through, some will persist in getting against the neck or face permitting the bees to sting the wearer, others push the hat over one's eyes when a view of a tree top is attempted. All of them are uncomfortable when the temperature is high, and some are more so than others.

The following described arrangement is the result of long experience and is in every way as satisfatory as any veil can be. Figure 1 shows the complete veil in use, and figure 2 shows the way



a half inch turned over and flattened, fairly cool veil, one which keeps away which prevents ravelling. The other from the head, gives freedom of movearticles necessary are a cloth hat, a ment, is durable, is bee proof, looks piece of wide tape a little longer than the strip of wire cloth and a piece of firm cotton cloth about 38 inches long by 8 inches wide. The cloth hat found most satisfactory is made of brown or white duck and is known to the trade as a "beach hat." The quality best suited to the puprpose costs 40 to 50 cents, varying with the seller.

To prepare the parts and put them together, proceed as follows: Cut the wire cloth two inches larger than the distance around the hat brim and fold over half inch along the two ends and along the lower edges, easily done by pinching the wire firmly between two strips of wood and bending the wire. Then take the wide tape, fold it equally over the hemmed edge of the wire cloth and stitch the two edges of the tape together, sewing right through the enclosed wire cloth. This is easily done on a sewing machine by using a stiff needle, thread about 30 or 40 size, and tighten tension. It is a little hard on the needle, but otherwise perfectly safe to the machine. Next the cloth is sewn to the taped edge of the wire in the same way. This double row of stitching through the wire and tape has several advantages. The next step is to sew the wire to the brim of the hat. Put the wire against the hat brim as shown and begin stitching at the middle of the front, having the wide part of the wire at the front of the hat and letting the ends lap at the back. Next stitch the two ends of the cotton cloth together and the ends of the wire cloth to the surface against which they rest. Double stitching at the hat brim is desirable. If the wire cloth is given a coat of paint before the tape is sewn on it will be less likely to rust and crumble. The writer painted his with white enamel paint, except that part coming in front of the face, which was their breath to cool their broth."

edges are "hemmed," that is they have given a coat of black. It makes a half way presentable and is easy to see through.

> Often a veil is not needed, especially in a small apairy or for brief operations, but when one is necessary the best veil is none too good and a poor one is almost worse than none at all.

Providence, R. I., Oct. 11, 1905.

#### Caucasian Bees in England.

One editor characterizes these as "the most worthless race of bees that has ever been offered to the public." I think that is practically the finding arrived at in this country by our Mr. W. H. Brice eight years ago, after giving them a pretty exhaustive trial. His verdict was: "I consider them worthless for bee-keeping purposes in this country, and, in a word, I call them 'wasters.' "Thus," he says, "exit 'Reines abeilles de la race Caucasienne gris et jaune de qualite eprouvee'." They are quiet, too quiet, poor breeders, lazy as workers, and bad winterers. Americans are seemingly finding out something similar now. - British Bee Journal.

#### Another Dickle "Theory."

F. Dickle says: "Since it is generally admitted that queens reared by the new and so-called improved methods are inferior to normally reared queens, it is advisable that bee-keepers make better use of the cells so easily obtained from their colonies having cast swarms." I wonder how many bee-keepers of the front rank would subscribe to this doctrine? Queen rearers, of course, will set it down as rank heresy, but Mr. A. C. Miller gives it his approval. - British Bee Journal.

"Never tell folks you can go ahead of 'em, but do it. It spares a great deal of talk and helps them to save

#### LOCATING APIARIES IN CALIFORNIA.

A Glimpse of the Difficulties That Beset the Tenderfoot in the Sunset State. Isolation, Hardships and Powerful Competition Are Some of the Things That Come With the Honey Harvest There.

#### By C. W. DAYTON.

California would be considerably disap- mountains, and extends up against the an apiary location; and the more so any tillable or grazing land. Where it honey yielding plants.

short space what might require many homesteaders, but it is usually a lifeyears to find out, and, maybe, end in long job, and sometimes more, to make sessed. Our ranch or tract of mountain only a lonesome life, fraught with pricount of the up and down lay of the several years we hauled water in the land there may be 80 to 90. At our east dry part of the season about eight line begins a grain and stock farm or miles. In the rainy season it could be ranch comprising 120,000 acres. Across had at one and a half to four miles. other very nearly the same size. When alkali, so that we occasionally went the and it is ten miles to the first house and The strip in which our land is situated very exorbitant figure.

the market city, it could not be bought all. Wherever there is a spring it has for less than \$100 per acre. Some of been secured many years ago and held house and others several farm houses, would it have been secured by settlers, according to the size of the farm and to but it would have been included in the the devotion of the land to grain or large farm, because it is very favorable

THE ORDINARY mortal coming from stock raising. A farm or ranch usually the East out here to keep bees in occupies a valley between the ranges of pointed at the difficulties in obtaining mountains all around so far as there is when he sees the miles and miles of is so far back and so rocky as to be conrocky and brush-covered mountains, sidered worthless for any purpose it remuch of which brush is first-class mains in the possession of the government. This usually leaves a more or less Since residing here twelve years I am narrow strip in the center of the mounin position to inform the prospector in a tain ranges that can be occupied by failure or loss of means already pos- a road to such homesteads. It is not land consists of about 60 acres, taking vations, but the scarcity of water often it as though it was level, but, on ac- forbids the enterprise altogether. For the section line on the north side is an- But this would contain either sulphur or we go to the city we traverse this farm, longer distance to secure better water.

four miles farther to the second. North- is about fifteen miles long, one-half west we are joined by a 90,000-acre mile long at one end and one and onefarm and southwest at first is a 5,000- half miles at the other. The canyons acre farm, and extending around that, which run up into the mountains cut like a horseshoe, is a larger one of 500,- this strip at right angles. These can-000 acres. None of these large farms your are the only places where the will sell off a small slice, and, besides, mountains can be entered on account of it is held at what would be considered a their abrupt contour, and are one-half to three miles apart. Some contain In this locality, 20 or 30 miles from springs of water and others no water at these large farms contain one farm as securely as a gold mine. Not only

to stock to get water without traveling and so demand high wages. Since the several miles for it, and then, perhaps, large farms comprise all the grazing it would have to be drawn by artificial land it is expensive to keep horses, as contrivance.

that these rocky, precipitous mountains crop of honey, but during the passing of contained such fruitful bee pasturage the poor seasons, which are more numerno doubt it would all have been included ous than the good. With several shipwithin the large ranches. But the use- ping expenses and middlemen's profits fulness of the sage brush is a compara- added, it comes high. tively recent discovery. On the first consisted of buying a few cattle for a honey. start, branding them, turning them increase. Persons born and brought up geles, who has branch offices in New

their apiaries.

in the rush of the season; men to do the tal, besides rents, debts, etc. work; wagons and teams to haul sup-

their feed must be obtained from the In earlier times if it had been known city, not only in the season of a good

When a man buys or hires he is exdiscovery that there were profits in pected to pay soon. This necessitates bees and sage brush, as well, or even the early disposal of his crop. With so better than grain and cattle, many of large an army of bee-men in like condithese large farmers engaged in extention, from a like cause, it causes a sudsive bee culture. Lower prices came on, den flush of the local market. The buymore dry seasons and bee diseases crept ers of honey are the usual sellers of in, which shut out the unscientific pro- sugar, syrups, etc., and it is common ducer. The large ranchman managed for sugar to be low about the time beebees about the same as stock, which men come in with their samples of

In 1897 I took a sample of my best loose to choose their own pastures, and honey to a wholesale dealer in Los Anscarcely outside the saddle, roping steers York, London and Hamburg. Said the and lassoing wild horses, could not be buyer: "Yours is pretty white; but we expected to tone down, in the course of sometimes see it lighter." Said I, "I a few years, to the careful, painstaking do not regard my honey so highly for methods necessary to bee management. the color as for taste." He said he did Extensive (the opposite of intensive) not buy honey by taste, but entirely by farming eventually brought the land to color. He went to the rear of the store, near sterility. There are less bushels per and returning, said to me: "Well, how acre produced and the grain is not so much do you want for your honey?" high in quality as formerly. The moun- "Four and one-half cents," said I. tains are also giving less and less pas- "Ho!" said he, "we are offered more ture. The large farms are, in conse- at two and one-half cents than we would quence, becoming less remunerative in care to buy," and turning on his heel as the other lines, so that the owners are if cutting the final flourish in his name turning their attention toward honey with a pair of skates, went rapidly production, employing men with more away. I kept my honey eight months or less bee knowledge as managers of and obtained eight cents, and this same wholesaler offered six and one-half. A great difficulty to the small-capital That is a long time to keep a crop bee-keeper is to get help when needed, where the producer has not much capi-

But these large farmers have horses, plies and honey to and from the distant wagons, feed and men on hand year in market, besides the capital for the oper- and year out. If they take a load of ation of his business until the disposal grain or wool into the city they can of the crop. Men dislike to leave the bring a load of bee supplies out. They city to work in these isolated localities, use groceries and other farm supplies

them to own and operate stores of they want them in their own coffers. their own and sell much of their honey tant large cities.

speculate for profit in other ways than he is robbed of. from grain and grass alone, and if there

in such large quantities that it pays are dollars to be obtained from bees

They are quite agreed that their Mr. and other produce in a retail way. I Boss Honeyslinger makes report of their know of farms 30 miles in length having chain of apiaries over his own name a store at a city at each end and a store although he may not own a bee, the midway, besides banks and mills in dis- horse, or two-wheeled gig he rides in. He gets assistants from the Cassellman In the East we can approach a small ranch of 20,000 acres, of which Mr. farmer who has a wooded pasture or a Cassellman is foreman; which ranch neglected orchard and he will nearly Mr. Johnson of the city is local manafall over himself to obtain \$5 or \$10 a ger of, besides five other ranches of year for an apiary location which other- comparative size. The owner, Mr. Sowise would return him nothing, but to andso, lives in Philadelphia, New York, these large farmers \$5 or \$10 a month is or perhaps in Europe, so far away that no inducement. They have learned to he is not aware of the local fame that

Chatsworth, Cal., Nov. 15, 1905.

#### WESTERN ILLINOIS CONVENTION.

A Very Interesting Report.

By J. E. JOHNSON.

of the Western Illinois Bee-Keep pelled to treat or have their diseased ers' Association was held in the county bees treated unless they are willing, but present reported a very light crop of but most of them anxious, to have help honey, some getting no surplus at all. in treating their bees. So the Illinois Mr. G. W. Caye, of Kirkwood, Ill., foul brood law and appropriation is a succeeded in getting 4,000 pounds of decided success even though the comsurplus from 170 colonies, which was pulsory clause was not allowed. Howabout the best average.

Mr. J. Q. Smith, president of the Illi- in the future. nois State Association, and State bee his work of inspecting bees throughout decided by unanimous vote to do so in a the State. Some localities in Illinois are body. The question box was one of the badly infected with foul brood, other main features of the convention. localities being entirely free from the disease. Mr. Smith has, during the past by Inspector Smith's help, entirely rid year, visited many infected apiaries in his bees of foul brood. different counties and has been quite successful in treating them.

State gives \$1,000 per year to aid bee- ago. He at one time lost every colony

THE FOURTH semi-annual meeting keeping, but bee-keepers are not comcourt house September 20th, and was so far Mr. Smith has met with no oppofairly well attended. All bee-keepers sition. All have not only been willing, ever, we may have need for that clause

Mr. Smith gave a cordial invitation to inspector, was present and gave an in- the association to join the State Assoteresting talk on foul brood and told of ciation. After some discussion it was

Mr. Alva Reynolds reported having,

Mr. Reynolds is one of the oldest beekeepers in this part of the State and It is probably well known that this attended bee conventions 25 or 30 years by foul broad and guit bee-keeping for grocers in regard to honey of this kind, about 10 years, but three years ago he and until this fall they have let it alone, oped the foul brood.

Mr. W. B. Moore presented all beekeepers present with a money purse and wished them all success in being able to get it full of honey money the coming

President Johnson reported having received two Punic queens from John Hewitt, of Sheffield, Eng., one of these being a virgin, and although about 21 days old when received, she was successfully introduced and soon became fertile and began laying. So far the Punics have proven to be all right. He expects to give them a fair trial next season.

Mr. E. D. Woods reported that he had always found that colonies having young queens wintered best and came out strongest in the spring, and asked that all present make it a point to mark all colonies having young queens and report at our spring meeting as to their success in wintering. Several questions pertaining to bee culture were discussed, but, not being a shorthand reporter, I am unable to do justice to them.

We are preparing to hold the best convention ever held in Galesburg next spring. Mr. J. Q. Smith, Mr. C. P. Dadant, Mr. M. Bevier and Mr. Baxter have promised to be with us, and probably other noted bee-keepers. All beekeepers are cordially invited to attend. All may have a voice in the meeting whether they are members or not. The next meeting will be held on the second floor of the court house at Galesburg, Ills., on the third Wednesday in May, 1906.

The price of honey is advancing, which has given some traveling men an opportunity to furnish grocers with adulterated honey. We have made it our business to watch this matter and advise

caught 26 swarms in his old hives, and but the scarcity of honey seems to have so, although over 70 years old, he again tempted some of them, and the State's became a bee enthusiast. But it seems attorney, with the aid of the State that his old hives, that had been empty chemist, was able to make a wholesale for 10 years still had spores, which devel- arrest, and 22 grocers were fined \$25 each for selling adulterated honey, vinegar and butter. The grocers pleaded guilty, but claimed that they knew not that the goods were adulterated and thereby got only a \$25 fine, but a second offense will not be less than \$100. So I think they will not risk offending the pure food law again; not only so, but they will give us strict attention when we talk honey to them, and the genuine article will look nicer to them and they wont haggle over a fair price for the

The daily papers gave this matter an airing, so the consumer will know that all honey bought of these stores in the future will be pure honey. I had the pleasure of attending the meeting of the Illinois State Bee-Keepers' Association at Springfihld, November 21-22. This association is now, I believe, the second largest bee-keepers' association in the United States, there being something over 200 members. Each member this coming year will receive a large cloth-bound report of the convention at Springfield and of other conventions. This book will also contain a lot of other information on the treatment of foul brood, etc. Every bee-keeper in the State should be a member of the State association; the report alone will be worth more than the membership fee. Anyone who will send Mr. James A. Stone, Route No. 4, Springfield, Ills., the secretary, \$1, will be given membership in the State association and the N. B.-K. A. for one year, and also the

There are many attractions at Springfield, as visitors can see the old home of the great statesman and president, Abraham Lincoln, as well as numerous other points of interest.

Williamsfield, Ills., Dec. 7, 1905.

#### SANTO DOMINGO.

Something of Apiarian Conditions in That Isle of Tropical Beauty and Bloody Insurrections.

#### By Joseph Braun.

MODERN BEE-KEEPING has not yet reached this country except in one or two instances in the vicinity of the capital. One company of three or four Dominicans have a new apiary of about 300 dove-tailed hives with Hoffman frames; Italians for the most part and a few hybrids. Another person has probably 50 modern hives, with black or native bees, and myself beginning with self-made hives and movable frames, but at present occupied by black bees. These bees are not very good. The beekeeping company of Santo Domingo City claim their Italians are 5 to 1 compared with the blacks.

The black bees here are as large as the Italians and have gray-brown rings or bands around the abdomen. The young are gravish all over when they first emerge from their cells.

My location is not a very good one, as one side fronts toward the northeast, on the Samana bay, from whence almost daily there blows the tradewind. To the other side is a large prairie of little value for bees.

The native bee-keepers have their bees in hollow logs of three to four feet in length, and of any diameter from six to twenty inches, just as they find old logs in the woods, which they cut off unevenly with the axe and clean out. Also pieces of royal palm with the pith pushed out, serve as bee-hives.

Honey has not much value, though wax is worth 25 cents a pound. From some of the ports there is some honey exported packed in empty kerosene cans.

which I made to the capital in the month Russia.

of August, overland, about 65 miles, I heard the distinct hum of drones twice in one day.

During month of August bees can not find enough around Samana Bay to sustain life, though this location will some day be a bee-keeper's paradise. It is about 20 miles wide and all kinds of honey bearing trees and creepers abound; especially pomarosa. The air is full of the hum of wild bees, but no bee-keepers. Only the huts of a half-dozen cattle raisers are met up with in traveling over the mountain range, which is not a very high one. On asking these people why they don't keep bees, they tell me if they want honey they can find plenty in the woods. I remember an incident some three years ago: Two farmers had about ten miles of land east of here. One was complaining about the high price of honey in comparison with cane syrup. The honey was 25 cents a demijohn of about three gallons. In these parts there is not much sale for honey. In the places along the bay it is about 10 cents a bottle, or 40 cents a gallon. It's not often to be had, and when it is, generally unclean. I suppose the higher price here is on account of the shipping ports of Sanchez and Samana.

The northwest part of this country is an excellent bee country. Campeche abounds there and many other excellent honey plants. Also the district around the capital, in fact, all the parts of the country which I have traveled over are good for bees. Even four miles from here, where I have taken out a wild colony from a rotten log, in the dull season, the bees had plenty of stores, and were carrying in pollen fast. In the same log I found a large snail shell well sealed up, and upside down.

Sabana La Mar, Republica Dominicana, W. I., Oct. 15, 1905.

The excellent portrait of Prof. Frank There are great possibilities for bee- Benton, shown in this number was keeping in this country. On a "voyage" taken Sept. 1905, at Tiflis, Caucasus

#### HUGENTOBLER'S APIARIES.

#### By Fred W. Muth.

HE TWO PHOTOGRAPHS I send you are glimpses of the apiaries of Mr. Robert Hugentobler, of Miami, Ohio.

practical bee-men with whom I have on this subject. had the pleasure of becoming acquaint-

keepers, and also many who are in reality bee-keepers. He will not even consider this, for his uncalled for, and almost painful modesty, banishes the very thought, and I fear will be the cause of the bee-keeping world never knowing the real Mr. Hugentobler, who Mr. Hugentobler is one of the most could, by his knowledge, enlighten many

His apiaries are models and ideals in ed, and talking the subject of bees and every respect; his main product is comb honey. Before our friend entered into honey, which he raises by the ton; his real vocation in life, bee-keeping, he grades his honey so carefully and nicely



schools, but the heavy strain of his hard the market. work laid claim to his health, and it was world and from the beginning manifested an intense interest in his new ing part of the industry or write articles markably. for the various bee journals. He would certainly surprise many so-called bee- our photograph has four apiaries, with

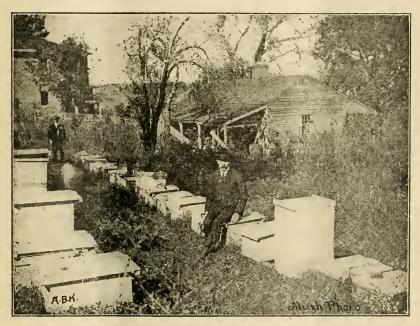
was an eminent instructor in our public that at all times it commands the top of

At the beginning of the big honey then that he came into the bee-keeping flow Mr. Hugentobler cages all queens, and after ten days examines all the colonies to destroy the queen cells that work. Mr. Hugentobler is well read on may have been built in the interim. the subject of apiculture in the fullest Then, when the proper time comes, the sense of the word; I have often tried to queens are released. In this way he persuade him to take up the queen rear- controls the swarming propensity re-

At the present time the subject of

some four hundred colonies in all. Mr. mind in regard to the new machine are, bee-keepers of the near future.

Hugentobler is the elder of the two in (1) is the capacity of the machine sufthe picture. The other gentleman is my ficient for a comparatively large busiunderstudy, Mr. William H. Ager, of ness, and (2) does it get all of the wax? this city, who is hopelessly afflicted with Some of our association members have the bee fever. Mr. Ager is extremely German wax presses, and they agree enthusiastic in the bee-keeping indus- that the machine is a hopeless nuisance try, and promises to become one of THE when the comb is melted in the machine, but by melting in a large kettle or tank I know Mr. Hugentobler won't mind the capacity of the press is increased if I tell a little tale out of school. I many fold, and the steam within the often tease him by telling him there is press assists in maintaining the proper one thing missing: he is a bachelor, and temperature; and in this, is perhaps su-



if the right kind of a "bee marm" would know of this, I am sure he would be in danger of being kidnapped.

Cincinnati, Dec. 2, 1905.

#### WAX EXTRACTING METHODS.

By E. F. Atwater.

MR. A. C. MILLER'S article on "Extracting Beeswax," with a cut and description of his new machine, surely holds out a large promise which I hope will be fulfilled.

perior to the Hatch-Gemmill pres.

Several years ago I made a modified Hatch-Gemmill press, and I think that perhaps it might be improved by arranging it so that the mass under pressure would also be under boiling water; and it does not get all the wax. Very little wax is left in the slum-gum.

We press our wax outdoors at times, when the bees will not bother. We have a tank on a concrete arch or foundation. This tank is about 26 inches The two questions which arise in my square, and in this we melt the comb.

A barrel is filled with water and kept boiling hot by steam from an old boiler. We open the press, put in the burlap sheet, throw in a bucket full of boiling water to heat the press, draw off the water, fill the press from the tank, fold over the corners of the burlap, apply follower, and add the pressure. You can't hurry it.

When you have pressed out all the wax that will come, release the screw, remove follower, loosen up the slumgum, throw in a bucket full of boiling water and press again. This has never been mentioned in print, so far as I know. Boiling water leaving the mass of slum-gum tends, under pressure, to carry most of the wax with it. The slum-gum, as it comes from the press, is so nearly free from wax that when dry it is hardly any more cohesive than so much dry sawdust. My tank will not hold enough combs to test the full capacity of the press, but I have several times pressed out fifty pounds of wax in two hours, alone, but this is above the average.

I am anxious to hear reports from those who test the Miller machine, in regard to its wax output per hour from old comb, and in regard to its thoroughness of extraction. The simplicity of the process, other things being equal, is greatly in favor of the new machine.

The foregoing by Mr. Atwater, calls for a little further explanation of the new machine.

It has a greater capacity than the presses on the market and it does get all the wax. I make these statements on the result of the work of the machine in the hands of disinterested persons. It can be used in connection with a supplementary system, such as used by Mr. Atwater, and it differs from the press in that it can be hurried.

For large producers of wax a special machine with automatic feed and steam connections might be more convenient, but of course would cost much more.

ARTHUR C. MILLER.

#### THE "LONG IDEAL HIVE."

#### A Reply to Mr. Braun's Questions.

By Dr. O. M. Blanton.

THE TWENTY-FRAME, one-story hive as worked by me is free spacing and of the true Langstroth pattern, arranged one and one-half inches from center to center of top bar. They hang almost always perpendicular and any little variation can be easily regulated. They are easily moved apart so as to lift rapidly the frames from the hive. The ends of the frames are directly to the entrance.

The entrance is fifteen by one-half inches with blocks to move in front of them to any distance required for ventilation of capacity of colony.

The bottom bar is one-half inch from the floor and if the lumber is not seasoned ought to be three-quarters of an inch to allow for shrinkage. I use a sheet of sail cloth over the top bars, which is soon propolized; boards or quilts are my abomination. With sheet you can rapidly strip it off and remove your surplus honey. If holes are eaten through the sheet it shows that the bees are craving ventilation, and you must be governed by their needs.

The top of the hive should at least be four inches above the sheet to give coolness and ventilation. In winter, the holes in the sheet can be easily stopped by pieces of sheet.

I often remove one frame where the surplus honey is located and spread them so that the surplus honey will be thicker and give more honey for the extractor.

Ease and rapidity of manipulation with thick combs is the desideratum of the bee-keeper working for extracted honey. Time is gold when the honey flow comes with a rush, often filling the hive in five or six days. The cry of the bees then is "give me room." If in extremely large colonies and hot

I fold back the corners of the sheet so rusty color, and the other known as the air can pass out, and close when needed.

You can use division boards and work as many frames as you see proper.

Greenville, Miss., Dec. 24, 1905.

#### PROF. BENTON ABROAD.

#### By F. Fenouillet.

(Translated from the French by Adrian Getaz.)

THE EMINENT American apiculturist, Mr. Frank Benton, is now traveling through Europe. I had the honor and pleasure of spending two days with him (the 7th and 8th of July) at the home of M. Mont-Jovet at Albertville, in the department of Savoie.

Mr. Benton is known among the apiculturists of the whole world, by his writings, his investigations, and experiments of all kinds on the management and direction of the apiary. His chief invention is that of the queen shipping cage which bears his name, and with which queens can be sent anywhere across land and sea. He is now super-Jovet among them.

Mr. Benton has traveled considerably. He has been in Greece, Palestine and Egypt, the East Indies, the Island of at the Agricultural College of the State Ceylon, Austria, Italy, Germany, France, of Montana (United States), has been and through the whole United States. appointed to help him, and will join him He lived during seven years at Munich either at Milan or in Carniola. We olian and Cyprian queens and shipping ment spends every year \$50,000 for the them to Canada and the United States. advancement of apicultural interests.

At the present time Mr. Benton is sent abroad by the United States government height, his moustache already gray, his to study the different species and vari- face showing a good-hearted, openeties of bees, especially two kinds found minded, honest man. He is strong and in the East Indies, Ceylon, Java and in good health, an untiring walker,

weather, the bees continue to hang out; yellowish gray color with wings of a Apis zonata. Both are of large size, about twice that of our common bees, and, therefore, having correspondingly long tongues, which permit them to gather nectar on flowers too deep for other bees.

> Another object in view is to introduce the Caucasian bee in the rocky Mountains, especially the territory of Wyoming, the climate of that part of the United States being similar to that of the Caucasus region.

> A third undertaking will be the crossing of the Cyprian and Caucasian races. It is hoped that among the hybrids, some will be found having the qualities of both without their faults, and that from such hybrids a superior strain of bees may be developed.

Besides the bees themselves, Mr. Benton is to study and import the best nectar-producing plants that he may

Mr. Benton left Washington on the 2d of June. He has already visited several leading apiculturists in England, France and Switzerland. From here he will go through Italy, then Austria and intendent of the department of agricul- Greece, and thence through the Cauture at Washington. He has established casus, Afghanistan, Hindostan, Nepaul, there a considerable apiary, to which the Sunda Islands, chiefly Java and queens of all races and from everywhere Borneo, Japan, the Phillipines, Sandhave been sent, some from Mr. Mont- wich and finally return to the United States, and from San Francisco across the continent to Washington.

His son, Mr. Ralph Benton, professor (Bavaria), where he was raising Carni- learned that the United States Govern-

Mr. Benton is 53 years old, of medium Japan; one known as Apis dorsata, of a never minding the hot sun. He speaks nearly all the European languages; the the first page on the left. French perfectly well.

kept us well interested, telling us many about 500 colonies in both. Mr. Benton of his traveling adventures and scrapes. wanted to see everything, study every-

We visited the two queen breeding He is very agreeable company and apiaries of Mr. Mont Jovet. There are



PROF. FRANK BENTON.

past page on the right side and ends at teur.

He had with him a Japanese translation thing and make notes on everything. of one of his writings; the letters are He bought a few queens and sent them very complicated, placed in vertical to Washington, On the 9th of July he columns; the text begins at the last took the train toward Italy.-L'Apicul-

#### JEFFERSON AND ST. LAWRENCE COUNTY (N.Y.) CONVENTION.

The Jefferson and St. Lawrence county bee-keepers held their annual convention in city hall, Watertown, N. Y., Dec. 13th and 14th. President D. R. Hardy gave the address of welcome, which was very much enjoyed by all.

After the business part of the meeting, A. A. French gave a very interesting address on "Who Shall Keep Bees?" It was both interesting and instructive, and we hope to send same for publication in the near future. (Mr. French's address will appear in The Bee-Keeper at an early date. - ED.) The next on the program was an address on, "Which is the Best Bee for Comb Honey," by D.R. Hardy, and he said "any old bee that would bring in the honey." He has tried Italians from several different breeders, and last season he bought 20 Carniolan queens mated with Italian drones, and they have proved very successful with him. They seemed to gather honey when other bees were not getting any, and went into winter quarters well supplied with honey. No honey, we must have a bee that will produce nice honey and a quantity of it. He was not certain how the Carniolan bees were coming out. Expects to test them another season and if they do as well as this season will be thoroughly satisfied.

F. H. Loucks gave his idea of honey for exhibition purposes. Said first point was to have comb filled to wood and capped, and, second, have honey in taken from hive, keep in a warm room. comb of good quality. He does not ap-

fourth consideration. E. Elethorp was called upon to reply and said he also thought looks come first in comb honey.

G. B. Howe spoke on "What Steps Bee-Keepers Have Taken that is Detrimental to Their Interests." and he said that covered a multitude of sins. He thought the first was putting poor honey on the market. Poor grading is very detrimental, and also the pound sections. We should not call a box of honey a pound, but should sell it for what it is.

T. H. Barber tells us what he considers the best process to render old combs into wax. He has two tanks, one inside of the other, to melt the combs, and when thoroughly melted uses an old cider press and squeezes the wax through about three thicknesses of burlap. He then remelts the wax and, when melted, dips into dishes for caking.

The question of whether a bee-keeper shall buy his supplies or manufacture them himself was very ably handled by Racine Thompson. He favors buying supplies. Says the cost of supplies would be more to manufacture than to buy for a small apiary. It was discussed at some length, some of the members being of the opinion that supplies can country could produce finer honey than be manufactured at less cost, especially New York, Canada and the northern everything except sections. Upon incountries. If we are working for comb guiry it was found that those favoring the manufacture of supplies were located where they could purchase lumber cheaper than the most of us.

> C. A. Hallegas explained the management of bees in producing comb honey. Said the main thing was to have strong swarms and then practice the tiering up plan. Leave all honey on until the end of the season. Prevent swarming all possible and lastly, after honey is

Mrs. A. A. French said she could not prove of bleaching honey. Size and say what part a bee-keeper's wife shape of section does not count, but should take in management of apiary, section should be nice and white, hav- but would tell us the part she took. ing no saw marks, etc. First comes What she said was to the point and flavor in extracted honey, then thick- showed that she was speaking from exness, third, color, with the package as perience. She cares for their home man he could hire in the yard.

The question box was used, and many points brought out that would otherwise have been lost.

Dr. E. F. Phillips gave a very interesting lecture in the evening which was very much enjoyed. He is a very bright man and well suited for the position he holds. GEO. B. HOWE.

#### SUGAR FEEDING.

A Reply to Mr. Chantry's Article in January Bee-Keeper.

By J. E. Hand.

IR. CHANTRY'S ARTICLE on sugar feeding in the January Bee-KEEPER is rather interesting and deserves more than passing notice. The first time I read it I was at a loss to account for the great loss of bees. he says, he was obliged to add three swarms at different times during his experiment to keep up the force of bees. I then read it again carefully and found he had caged the queen. Then I did laugh. Why, bless your heart, Thomas, didn't you know that you should never cage a queen in feeding back? If your queen had been at liberty and had been a good one she would not only have kept up the full force of workers, but probably would have given you a natural swarm, which would have added \$2.00 more to your already large profit.

However, aside from the blunder you made in caging the queen, you have made a pretty fair showing on the profit side of sugar feeding. Let us see: 94 pounds of honey, at 15c, \$14.10; 20 pounds in brood chamber, at 7c, \$1.40; 125 pounds of sugar, at 5c, \$6.25; 624 pounds of extracted honey, at 7c, \$4.38.

At present prices you made a clear queen you could have added \$2.00 more tensely with the cold.

yard during the swarming season, and, for a swarm, making a clear profit of as Mr. French says, is better than any \$6.87 on a \$10.63 investment. Whew! I had no idea that sugar feeding was so profitable, and all this profit aside from the greatly improved condition of such fed colonies for wintering, as well as for next season's honey crop.

> Now, while I firmly believe that such articles as has been running in THE BEE-KEEPER of late, will do more to injure the reputation of pure honey than all the newspaper canards that have ever been printed, yet I believe in either telling the truth or keeping still. It is useless for any one to say that sugar honey cannot be produced except at a loss. I have seen thousands of pounds of pure sugar honey that was produced at a profit. And it was a strictly first class article, and I want to say right here that such honey is of the very best quality and can never injure the honey market. On the contrary, it will create a demand for honey wherever it is seen and used.

> All this talk about the danger of sugar syrup fed to the bees in the fall for winter use, getting into the next season's surplus and contaminating the honey, is the foolishest kind of twaddle. Any novice ought to know that such stores would be consumed long before next season's honey flow. If a little should get into the honey it would only be an improvement to the honey, and should not be considered as a calamity. I would not think of taking the risk of buying extracted honey to feed my bees for winter. My bees are wintered on stores of sugar syrup, and I know from past experience that they will winter perfectly.

Birmingham, Ohio, Jan. 9, 1906.

Mr. Joseph Braun, who writes of Santo Domingo in this number, says that the temperature there ranges from 80 to 90 throughout the year. We profit of \$4.87 on an investment of wonder if that would "bake" Editor \$10.63, and if you had not caged that Abbott, or whether he would suffer in-

#### THE

#### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

#### THE W. T. FALCONER MFG. CO. Proprietors

PUBLISHING OFFICE..... FORT PIERCE, FLA. HOME OFFICE..... ... FALCONER, N. Y

HARRY E. HILL......Editor ARTHUR C. MILLER... Associate Editor

#### TERMS AND PRICE OF SUBSCRPITION:

Fifty cents a year; three years, \$1.00. To new subscribers only, on trial, one year, 35 cents. Payment always in advance.

#### ADVERTISING RATES:

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line.

Special location, 25 per cent extra, Cuts inserted

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#### HOW TO ADDRESS.

The home office of The American Bee-Keeper is at Falconer, N. Y., and all matters relating to subscriptions, discontinuances, changes of address,

scriptions, discontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office.

Matters relating to the editorial department—manuscripts, photographs, or correspondence in any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida.

#### DISCONTINUANCES.

The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages, if any are paid. Those who wish the paper discontinued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter.

According to custom house reports, there was shipped from Dominican ports during the first three months of 1905, 14,760 gallons of honey, and 107,-825 pounds of beeswax.

and Busy Bee, thinks the editor of the THE BEE-KEEPER. Since Mr. York's AMERICAN BEE-KEEPER has been baked action was hardly prompted by any so long in Florida that he regards this Christlike spirit, and being a radical state as the only one in which a man deviation from the ethics of modern can live. Then he says, "By the way, journalism, we are forced to the belief the most we ever suffered from cold in that he has rather a hard time to find our lives was in Florida." Consistent, "stuffing" for his weakly "old reliaisn't he?

#### "Advanced Bee Culture."

We acknowledge the receipt, through the kindness of the author, Mr. W. Z. Hutchinson, editor of the Bee-Keepers' Review, Flint, Mich., of a copy of the newly revised edition of "Advanced Bee Culture."

This new work contains over two hundred pages, written in the easy, plain and concise style characteristic of Mr. Hutchinson, and deals exclusively with the practical phases of advanced apiculture. It contains numerous beautiful reproductions from photographs, and is exquisitely printed on heavy paper. The harmony in both color and design, as displayed in the binding of "Advanced Bee Culture," reflects the skill of the modern book-maker and does credit to his art. It is, we think, the most handsomely clad volume that has come to grace the apiarian library of our day. The price is \$1.20, postpaid.

#### Very "Small Potatoes."

With the beginning of the sixteenth volume of The Bee-Keeper, last month, it was found necessary to make a new contract with a new printing house, for our work. Co-incident with this change occurred the serious illness of the foreman of the new establishment. This, in connection with the transportation of all material, etc., from one city to another, resulted in a number of typographical inaccuracies, which, however, came out on time.

Editor York, of the "old reliable" American Bee Journal, takes occasion to compile a list of the errors and publishes them, in order that his readers Editor Abbott, of the Modern Farmer may fully appreciate the weaknesses of ble."

By way of introduction, in publishing ter Caucasian blood abroad. the editorial from The Bee-Keeper for December, pages 255-256, the Canadian Bee Journal says:

Nothing for a long time has so acitated the minds and divided the opinions of the United States bee-keepers as the introduction of this race of bees by the department of agriculture at Washington. Gleanings is rather favorable to the newcomer, while Editor Hill, of the AMERI-CAN BEE-KEEPER, waxes hot in his denunciation of them.

Editor Craig then supplements the editorial reproduced, as above mentioned, by this very wise comment and admonition:

The sarcasm is striking; Mr. Hill's reference to his experience with the Caucasians probably dates back to his tuition with our Mr. J. B. Hall, of Woodstock, who spoke in no uncertain tones of his dislike to the breed at the recent Ontario Bee-Keepers' convention. In our opinion it will be best for Canadian beekeepers to steer clear of these bees until they gain a better reputation. We have received the following letter from Mr. R. F. Holtermann along the same line:

Editor Canadian Bee Journal, Brantford, Ont.:

Dear Sir, - Unwisely, I think, and so do many others, the department of agriculture at Washington, D. C., is arranging without a thorough test to distribute the Caucasian bee. Mr. J. B. Hall condemns them strongly and says that after 23 years' effort to stamp them out, their objectionable traits at times crop up in the apiary. Would it not be well for Canadian bee-keepers to suppress their curiosity and let the United States distribute them. We can wait a season and may keep ourselves from introducing at different points through the country what may be as objectionable as the English sparrow.

Again the American Bee-Keeper rejoices to find itself surrounded and supported by the actual producers whose interests it seeks to defend without fear or prejudice. The Canadian bee-keepers are prudent in the position they have assumed; and we trust that apiarists of fruits are competitors of honey. THE the United States will demand more BEE-KEEPER told its readers that way knowledge in regard to Dr. Lvon's "no-back in last May.

Canadians on the Caucasian Question. ble race" before they accept and scat-

The Amercian Bee-Keeper Indorsed.

The following formal indorsement of the policy of the AMERICAN KEEPER by the New York State Association of Bee-Keepers' Societies, one of the largest and most influential apiarian organizations of the United States, is an expression of commendation most gratifying, and one that indicates the trend of the times; betokening the advent of a new era in the field of American apiculture.

The editor extends assurances of his appreciation of the honor thus conferred, and of the sincere purpose of, not only himself but also that of his esteemed associate. Mr. A. C. Miller, to adhere strictly and solely to the interests of the producing fraternity in the management of the American Bee-Keeper in the future.

The self-explanatory indorsement fol-

Romulus, N. Y., Jan, 13, 1906. Mr. H. E. Hill, Fort Pierce, Fla.

Dear Sir:-I send you the following resolution which was adopted at the New York State Association of Bee-Keepers' Societies, held at Geneva, N. Y., Dec. 18 and 19, 1905:

Resolved: That a vote of thanks be tendered to Harry E. Hill, editor of the American Bee-Keeper, by this, the New York State Association of Bee-Keepers' Societies, in convention assembled, for his plain and fearless characterization of those interests that would impose and prey upon the honey-producer, and for his unselfish efferts in behalf of the true honey-producers of this country, be it further;

Resolved, that this resolution be placed upon the minutes of this meeting and that the secretary forward a copy of the same to Mr. Hill as a further evidence of our approval of his course, and of the esteem of this Association. C. B. Howard, Secretary.

Gleanings for Nov. 1 discovers that

#### Artificial Swarming.

The so-called Alexander method of curing black brood and foul brood is in reality the Simmins plan, first given by Mr. Samuel Simmins in his book "A Model Bee Farm," in the edition of 1887, pages 57 and 53, and at greater length in the 1903 edition, pages 120, 121 and 122. For our readers who are not familiar with the plan we will say its efficiency lies in depriving the colony of a laving queen for approximately three weeks, and as a consequence there is no brood and no soil for the diseaseproducing plants to grow in. It gives the bees a chance to clean house and get the upper hand of the trouble.

We congratulate ourselves and our readers on securing Mr. Allen Latham to write for The Bee-Keeper during the ensuing year. Mr. Latham is a close observer, original in his method of study and he has made many interesting discoveries. Current articles by him deserve particular notice. His observations on the cocoon of the queen and worker differ materially from Cheshire's, and Mr. Latham is positive as to the accuracy of his work. Special effort will be made to have the scientific matter of direct benefit to the practical bee-keeper.

Any of our readers who have early volumes of the AMERICAN BEE-KEEP-ER, old bee books, or bee magazines, or leaflets, price lists, news clippings, etc., relating to bee matters will confer a favor upon The Bee-Keeper by communicating with Mr. Burton N. Gates, 10 Charlotte street Worcester, Mass. Mr. Gates is compiling a history of bee literature, which, from what he has told us, we believe will be both interesting and instructive.

Along about 120 days from this time bees will be wanting a place to put their loads. Better think of it now and lay plans. Forehandedness pay cash.

It has arrived, the specific "It" being Hutchinson's new edition of Ad vanced Bee Culture, and if you have not got it, get it quick, be you beginner or veteran. From cover to cover the book is filled with interesting bee lore and it is beautifully illustrated with illustrations which illustrate as well embellish. In every detail of paper, type, presswork, binding, etc., it is well done and bespeaks the good taste of the author. American bee-keepers have in this volume a book to be proud of. It cannot be "reviewd" or "condensed" it must be seen, handled and read, and if when you have finished you do not feel that the author has conferred a special favor on you, something is the matter with you.

Mr. G. W. Adams who appeared for the first time in our columns last month is a thorough bee-keeper of many years experience. It was the good fortune of the associate editor to be Mr. Adams' guest one day last summer and we succeeded in persuading him to tell our readers of some of the good things he makes and uses.

In connection with the article on artificial comb which appeared in January number, it will be fitting to quote the following from the Bee-Keepers' Magazine of 1873, where the editor answering a question about artificial comb says: "We have a fine sample made in Kentucky, we have forgotten by whom."

Bee diseases are said to be losing their virulence in some parts of New York state. Such things die out better than vicious laws, so have an eye to all proposed measures for creating inspectors.

Let the keeper of but a few colonies leave the testing of new races to persons who can afford to experiment. It will be time enough for the former to buy when the latter pronounces them good.

#### A Successful Association.

At the December meeting of the Worcester County (Mass.) Bee-Keepprehensive paper on wax extracting.

system, and the testing of sundry samthou and do likewise.

honored The Bee-keeper office with a lowed to fly. call this month are Mr. D. H. Coggshall, of Mr. O. O. Poppleton.

Should there be a notable lack of editorial stuff in this number of THE BEE-Keeper, it is because we have been material. Please remember when you read all the interesting and instructive letters from various parts of the world, that we will send THE BEE-KEEPER three years for one dollar. Mention it to your bee-keeping acquaintances, please.

"All folks that grow up right off, like a mushroom in the night, are apt to think no small beer of themselves."

#### A Queen Breeders' Catalogue.

Washington, D. C., Jan. 8, 1906.

Inquiries frequently come to this ofers Society the secretary, Mr. C. R. fice for the names of queen breeders of Russell, read an interesting and com- various races and strains of bees, and in order that reliable information may Unique features of the meeting were be given, I am preparing, in co-operathe practical demonstration of wax ex- tion with the American Breeders' Astracting by presses and by the new sociation, a catalogue of queen breeders.

There is a catalogue of considerable ples of commercial wax for purity. Mr. size in this office, but in order that no Russell showed himself thourghly fa- queen breeder of any importance be miliar with the subject. The enthu- omitted, I would respectfully request siasm and push evinced by the members all breeders having one hundred or of this society are refreshing. One of more queens for sale annually to the their achievements has been the educa- general public, who see this notice, to tion of the local press until it success- send me the following information as fully and accurately reports the pro- accurately as possible: Races bred, ceedings of the society, and so popular annual output of each race and number is the subject of apiculture that some of mating yards. For my personal inof the dailies gave nearly three columns formation I should be glad to learn the to the meeting above referred to. Go method of queen rearing used, the number of breeding queens of each race used and the number of colonies in Distinguished apparists who have each yard from which drones are al-

Hereafter all persons requesting inof Groton, N. Y., and Mr. W. A. Selser, formation concerning dealers in any of Philadelphia. Messrs. Coggshall and strain will be given the names of the Selser have both recently possessed four dealers nearest to the address of themselves of winter homes in South the inquirer. This will, I believe, be a Florida, and are now quartered with fair way of giving the information their families at Stuart, on the East without favoring any breeder, and will Coast, where they are near neighbors repay the breeders for their trouble in answering these questions.

Respectfully yours, E. F. PHILLIPS, Acting in Charge of Apiculture.

The associate editor recently did a litblessed with an abundance of better the visiting among New York and Massachusetts bee-keepers. If the reception accorded him and the hearty endorsement given the AMERICAN BEE-KEEPER and its policy are criterions, then the efforts we are making are well appreciated.

COLLINGDALE APIARY—J.R. Rambo, breeder of Caucasian and Golden Italian queens. Italians of Caucasian and Golden Italian queens. Italians bred from stock received from Swarthmore, Caucasians bred from imported queen. Queens reared and mated in separate yards, 6 miles apart Satisfaction and safe arrival guaranteed. Agent Golfen W.T. Falconer Mfg. Co's. bee supplies. Collingdale, Delaware County, Penn.

#### HONEY AND BEESWAX MARKET.

Buffalo, Dec. 6.—The supply of honey is only fair and more needed The demand is good for fancy. We quote our market today as follows: Comb, fancy, 12-14, No. 2, 8-10c. Extracted, 6-8c lb. in 5 gallon cans. Beeswax 28-32c Really fancy one-lb comb is wanted, but lower grades move slow and have to be cut accordingly. Batterson & Co.

Chicago, Dec. 6.-The trade in best grades of white comb honey has been fair, yet retailers take only small quantities at a time. This honey brings 14-15c, other grades are difficult to place at 1 to 8c less per lb. Extracted selling at 7-7½c for white, and amber 6½-7c, dark 5½-6 Beeswax when clean and of good color, 30c per lb.
R. A. Burnett & Co

Boston, Jan. 11-There is good demand for strictly new honey, with light supplies Fancy, 16c; A No. 1, 15c; No. 1, 14½--15c; No. 2 practically out of the market Large stock of old honey on hand, going very slowly Prices nominal. out of the market hand, going very slowly Prices nominal, Blake, Scott & Lee Co.

Kansas City, Mo., Dec. 7.- The supply of honey is good. The demand is fair. We quote our market today as follows: Comb, \$3.25 per case. Extracted, 6c and 612c. C. C. Clemons & Co,

Cincinnati, Dec. 30.-There is no demand for honey at the present time on account of the holidays. However, prospects for the coming year are bright, and we are looking forward to a revival of trade about January 15th. The price of comb honey remains firm; we quote fancy white at 15 to 16½c. Extracted: Amber in barrels at e to 6½c, according to the quality. Fancy white extracted in 60 pound cans at 7½ to 8c. Amber in 5ans, 6 to 7c. (The above are our selling prices of

We are paying 30c per pound, delivered here, for choice, bright, yellow beeswax.

The Fred W. Muth Co.

51 Walnut street

New York, Dec. 6-Comb honey-The demand continues to be fair for all grades. Prices practi-cally remain the same. We quote fancy white at 14 to 15c; No 1, 13c; No. 2, 12c; buckwheat 10c per lb. Extracted honey is in good demand, especially lb. Extracted honey is in good California, with large supplies. We quote white, 61/2 to 7c; light amber, 5c; buckwheat, extracted, 5½ to 6c per lb. Beeswax, firm and steady at 29 to 30c per lb. Hildreth & Segelken.

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Should have a copy of

#### The Amateur Bee-Keeper

A 70 page book by Prof J.W.Rouse: written especially for amateurs. Second edition just out. First edition of 1,000 sold in less than two years. Editor York says: "It is the finest little book published at the present time." Price 24 cts., by mail, 28 cts, This little book and

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40 BULBS, 25 Cents.
For in or out of doors growing Glovinia, Begonia, Iris, Scilla, Tuberoses, Jonquils, Daffodils, Oxalis, Freesia, Tulips, Hyacintia, Crocus, Japan Lily, Snowdrops, Narcissus, Allium, Chionodoxa, Paconia. For 25c., stamps or coin, we will send this magnificent collection of bulbs, and also as a premium a tine FREE Criterio of flower seeds, 250 varieties, Grand or Grand Beauty Control of State of Control of Grand Beauty Control of Grand Beau WOODLAWN NURSERY, MALDEN, MASS.



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dallions. Quick sellers. Big Money. Write at once. Special territory given. Largest Medallion Comp'y in the world. Agents' supplies. Novelties up-to-date. Universal Manufac-Write now. turing Co., Pittsburg, Pa.



Verbena, Fetnina, Nasturtium, Cypress Vine, Ileliothrope, Mignonette, with the following Bulbs FREE: One Dewey Lily (as above). I Begonia, 1 Freesias, 1 Tuberose, 1 Gladiolus.

All of the above sent, postpaid, for 10 cents in coin or stamps. Order early. Avoid the rush.

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#### DIXIE HOME THE

1005, Birmingham, Alabama

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Why not have one yoursely? It's an excellent investment. Write me, is interested.

J. E. Andrews, Fort Pierce, I'la

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It is gradually brought to light that the Civil war has made great changes, freed the slaves, and in consequence has made the large land owners poor and finally freed the land from the original owners who would not sell until they were compelled to do so. There are some of the finest lands in the market at very low prices, lands that produce all kinds of crops, grasses, fruits, and berries; fine for stock. find green truck patches, such as cabbage, turnips, lettuce, kale, spinach, etc., growing all the win-The climate is the best all the year around to be found, not too cold nor too warm. Good water. Healthy. Railroads running in every direction. If you desire to know all about Virginia send 10c. for three months subscription of the VIRGINIA FARMER to Farmer Co., Emporia, Va.



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  1 pkt. Mixed Poppy.
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25 Bulbs, a Beautiful Collection, sent with this order, including Hyacinths, Tulips, Orocus, Tuberoses, Gladiolus, Caladium, Oxalis, if you will send at once 25 cents in silver or stamps. Address

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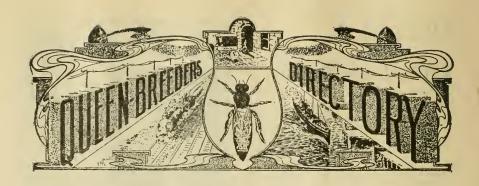
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Poppy, I B Portulaca, 20
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QUEENS HERE.—We are still asking you to give us your trade. We sell Italians, Goldens and Carniolans at 75c for untested and \$1.00 for tested. Prices on quantities and nuclei upon application. JOHN W. PHARR, BERCLAIR, TEXAS. Jan. 6

SWARTHMORE APIARIES, SWARTHMORE. PA.—Our bees and queens are the brightest Italians procurable. Satisfaction guaranteed. We are breeding the Caucasians absolutely pure from direct imported stock.

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Catalogue and price list FREE.

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W. J. DAVIS, 1st, YOUNGSVILLE, PA. breeder of choice Italian Bees and Queens Quality, not quantity, is my motto.

QUEENS from Jamaica any day in the year. Untested, 66c; tested, \$1.00; select tested, \$1.50. Our queens are reared from the very finest strains. Geo. W. Phillips, Sav-La-Mar P. O. Jamaica, W. I.

D. J. BLOCHER, PEARL CITY, ILL-Breeder of Fine Italian Bees and Queens Our stock speaks for itself. Safe arrival of all stock guaranteed Free information.

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C. H. W. WEBER, Freeman and Central Aves., Cincinnati, Ohio. If for sale, mail sample and state price expected, delivered in incinnati. If in want, write for prices, and state quality and quantity desired.

WE are always in the market for extracted honey, as we sell unlimited quantities. Send us a sample and your best price delivered here. The Fred W. Muth Co., 51 Walnut St., Cincinnati, O.

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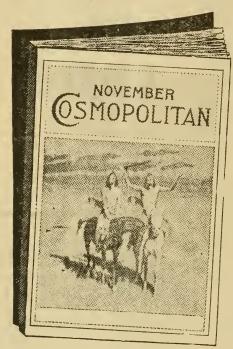
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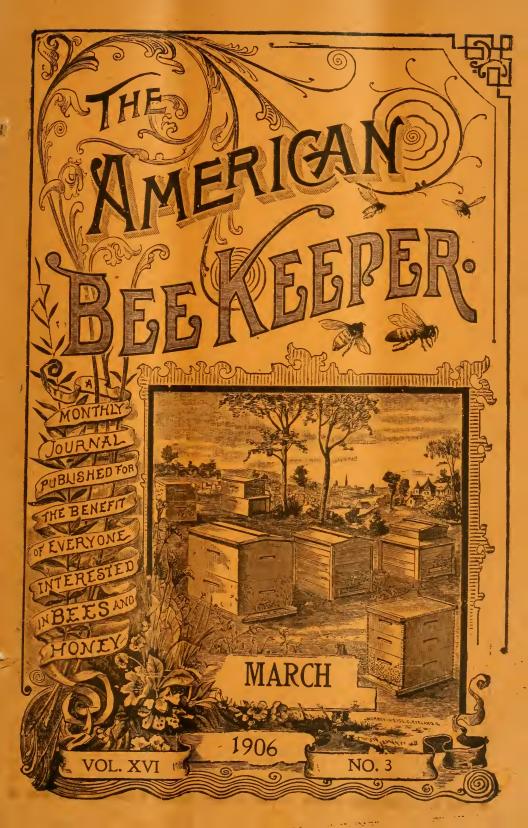
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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

MARCH, 1906.

No. 3

### BRAIN POWER OF BEES.

## Evidence of a Latent Instinct That Gives Rise to Some Interesting Questions.

#### ALLEN LATHAM.

stinct, matters little, and it is never shown to be entirely unwarranted. likely to have an undisputed title so own divinely given mentality.

stand upon either side of the question, the same under like conditions. Do bees reason? Few of us would

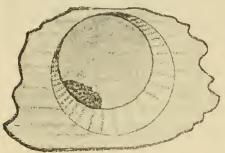
HETHER we call the action which to make the rabid statement that bees emanates from the central ner- never do, in any sense, make use of a vous system of the bee, reason or in- reasoning faculty, may sometime be

In most cases one can apply this test long as the definition of the term in- to the actions of bees: Will other bees stinct is inexact. What chifley concerns invariably, when put under like condius is the complexity of that action, tions, perform the same acts? If the and what chiefly interests us is the answer is always yes, we are forced to extent to which it trespasses upon our the conclusion that the bee's reason and man's reason are essentially unlike, It is unwise to take too decided a since we know that two men do not act

It is easy, too, to understand the incare to go as far, for instance, as did stinctive action of the honeybee when Father Langstroth, or as does Maurice every act performed is only one of a Maeterlinck of the present time. When series and is essentially the part of the sentimentality sits in the seat of science life-work of every bee, or at least is a comedy is pretty sure to be enacted; perfectly normal to every bee. It is and with all due respect for the memory when some unusual act takes place, one of Langstroth and with all due sympathy which may not have occured among the with the feeling of Maeterlinck I can ancestors of certain bees for a score of see only false deductions in some of generations, that our amazement betheir statements regarding the wonder- comes supreme; and it is then that, ful reasoning powers of the bee. Yet almost filled with awe, we ask: Is this

reason? For it is well nigh beyond had not bored a good clean hole. our belief that an instinct can lie latent days later, however, the chip was over a score or more of generations.

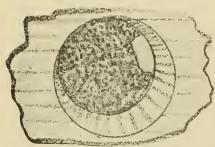
about to describe, I am inclined to pre- were in reality building a wall across fix an apology. It may be that such that entrance, building of wax and proan act is extremely common, and that polis, mostly of propolis (bee-glue). I have been carelessly ignorant of it,



No. 1- THE WALL BEGUN.

since I kept bees twenty years before I saw the first instance. A year later I saw the act repeated, and I can get bees to repeat it by bringing about the right conditions.

A few bees were placed in a box five by five by nine inches, with a hole a little over one inch in diameter at one end. The weather was somewhat cool and the conditions unfavorable for the



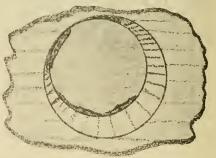
No. 3.—THE WALL COMPLETED.

development of an extremely weak the colony had gained well in numbers colony. There were less than a pint of bees all told, and they had but one small wall was permanently torn down. comb at the extreme rear of the box.

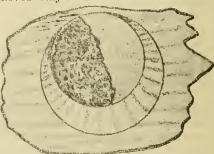
opening a chip-like projection; and I rence it demands more than a passing remember thinking at the time that I notice.

A few doubled in size, and there were two or In offering the incident which I am three bees busy about it The bees

In the course of a week the wall was



No. 4.—THE WALL TORN DOWN. completed, and all the opening except a space large enough for two bees to pass in was closed. The wall was not smooth and flat but more like paper which has been wet and dried rough. It was of uneven thickness, as could be seen by holding it to the light. The wall persisted till well along into summer, though at times it was partly removed only to be rebuilt soon. When



No. 2.—THE WALL HALF DONE. and the weather had become warm, the

There seems to be no doubt that this Not many days after leaving the bees wall was built to shut out currents of thus I noticed on the inside edge of the cold air, and as an act of rare occurhabitually stop cracks and small holes others not, and so of alien stocks. The which they are not using as exits. In successful cases he attributed to the such case they are only doing what may presence of home odor, and when it be seen to occur in every normal colony failed with the "home" colony he laid where, especially in late summer, bees it to a supposed loss of said home odor are extremely eager to stop every crack due to high wind. with propolis, which they push into the crack lavishly plastering it rather presented them at home only to have promiscuously.

How different that wall across the entrance; built in late spring, and built sparingly of propolis; there was no filling of a hole, but only a thin wall extended across the hole!

It rouses most interesting reflections. Did bees once live in the open, and build nests after the manner of the paper-nests of the hornets? Did they perchance build pitchy umbrellas above their combs? Did they, if living in were worthless so far as proving anycliffs, wall off their homes? At any rate, why that latent instinct which upon occasion rouses to meet the needs some propolis and dissolve enough of it of the hour?

Rowley, Mass.

#### ODOR AMONG BEES.

#### A. C. Miller.

RECENTLY HERE British Bee Journal touching on a fingers. In this case we see that it is translation of an article by Mons. L. human odor to which they object, and Forrestier on "Odor Among Bees," that the propolis from one hive protects Because bees possess an acute sense of from the attacks of the bees of all. It smell and because certain foreign odors is not the recognition of home odor that are repulsive to them it is assumed that protects but the absence of human odor, they distinguish strangers from the in- the propolis varnishing over and sealmates of their own home entirely by ing the pores of the skin. Drop a bit the stranger's odor. M. Forrestier of the "paper" from a hornet's nest undertook a few experiments to prove into the hive and note the signs of fear what he already believed, namely, the and anger. It is an inanimate and inert foregoing theory. In the course of object and yet it creates consternation. these experiments he "washed his These things plainly show the bees" hands several times to remove all hu- acute sense of smell, and that odors man odor", fallacious reasoning. Then alien to bees to greater or lesser extent he smeared his hands with juices from excite the bees, nothing more or less. crushed drones of one colony and pre-

Yes, it is perfectly true that bees of the drones were peaceable and in

Then he immersed bees in alcohol and them thrown out. Bees similarly treated but "allowed to rest by themselves until they had reproduced their personal odor" were safely received. He entirely overlooked the effect of the alcohol on the poor victim, forgot its pain producing and irritating action. No wonder that a bee so treated was ready for a "scrap" as soon as she was able to stand.

These experiments, like the others, thing about odor.

If the would-be investigator will take in a little alcohol to make a solution the color of weak tea and will then wash his hands and wrists over with this he may go from hive to hive with impunity. If he will leave one or more fingers unwashed with this varnish he appeared in will, if the bees are at all cross, be these columns a quotation from the likely to get stings on the unprotected

We know that if we acutely agitate sented his hands to the same and other all the members of a colony of bees by colonies. In some instances the sisters smoking or shaking or dequeening, etc.,

they readily receive aliens, be they supers and I also claim that such stuff smell is suspended in such cases. Some the flowers, and whether sold as comb stranger. We are not working with expects as he has reason to, to get the reasoning beings but merely with little pure article. automata that respond freely to exterable, but we find it does not so operate. trouble generally ensues and experi- in the combs is still sugar syrup. Again bees peaceably intermingle.

are very interesting, but they only bees act irregularly.

#### THE EVIL OF SUGAR FEEDING.

#### Dr. W. R. Claussen.

NOTE WHAT Mr. Thos. Chantry has to say in the January number of AMERICAN BEE-KEEPER in regard to sugar feeding and it is evident that either I have made my statements ambiguous or Mr. Chantry has hastily read what I wrote.

I do not contend that sugar feeding, in order to produce honey, can be carried on at a profit, for I have never tried it, but I do claim, and I know from experience, that where brood nests are packed with sugar syrup in the fall it may be, and often is, carried into the

queens, drones or workers. We can- is not honey, and I know it has not the not rationally assert that the sense of dietetic value of sweets gathered from other cause than odor governs the atti- or extracted honey, is an imposition on tude of the bees of a colony toward a the buyer, who, when he buys honey

I am not at all anxious to earn the nal influences. If the mere odor of a \$100 offered by Mr. Chantry, as my stranger at one time excited other bees honey has acquired a good name and to resent its presence it should at an- the fact that sugar is not fed in my other time if the "odor theory" is ten- apiary is known to all my customers.

Now, whether sugar can be fed at a We do find, however, that if the profit or not I no not, as I said before, stranger goes calmly about its business know, nor do I care, but if Mr. Chantry it is unmolested, but if its advent has will turn to Root's ABC he will find been such as to disturb it, to excite that Mr. Root agrees with me, that fear, or to arouse a combative spirit sugar syrup fed to the bees and stored ments strongly indicate that the he will see Mr. Langstroth is of the stranger is the aggressor. We may same opinion and says, "Sugar syrup admit that odor acquaints the stranger fed to the bees can be readily distinof the fact that it is in a strange place, guished, after they have sealed it up as and yet we do not have in consequence before." Then let him turn to Prof. to admit that its odor governs its re- Cook, who wrote some very valuable ception; on the contrary, evidence is articles, and he will find he says, "In abundant that despite strange odors all feeding, unless extracted honey is used, we cannot exercise too great care, Mons. L. Forrestier's experiments that such feed is not carried to surplus boxes. Only let our customers once prove that under abnormal conditions taste sugar in their comb honey and not only is our own reputation gone, but the whole fraternity is injured." Now, here is the very authority, and two others besides, that he quotes. All three agree we ought to make sure that no sugar syrup finds its way into our surplus and that is why I say let sugar alone and avoid even the appearance of evil. To be sure, if my bees were literally starving and no honey was to be had I would feed syrup rather than lose my bees, but such a state of affairs has never existed where I have been and I hope it never will. Maybe, as some of the fraternity are fond of saying, it is due to "locality."

Waupaca, Wis., Jan. 8, 1906.

We are growing nicely, thank you.

### THE RAISERS OF HONEY.

Addresses and Discussions About Bee-Keeping as Given at Institute in Session Here.—Many Points Brought Out.

THE FOLLOWING newspaper clip- sulted in the choosing of the same men

The election of officers, the transac- appointed later. tion of miscellaneous business and a The miscellaneous business consisted

ping, which refers to the conven- who have officiated for the year, who tion of the New York State Association are as follows: President, W. F. Marks, of Bee-Keepers' Societies, held at Clifton Springs; vice president, Charles Geneva, N. Y., Dec. 18-19, 1905, to- Steward, Sammonsville, N. Y.; secregether with the accompanying picture, tary and treasurer, C. B. Howard, was sent to us by Mr. F. Greiner: Romulus. An advisory board will be



BEE-KEEPERS AT THE GENEVA CONVENTION.

was the first thing on the program re- keepers should keep in as close touch

consideration of how best to protect principally of a discussion as to whether the honey producers from the exor- the institutes of bee-keepers, which bitant prices at present charged by are similar to the farmers' institutes, manufacturers of the supplies needed should be continued or not, and as to by the bee-keeper occupied almost the whether the association should become entire time of the bee-men at the affiliated with the New York State Somorning session of the institute which ciety for Agricultural Research. The is being held today in the A. O. U. W. discussion of the first matter ended in hall. The election of officers which the delegates deciding that the beeannual meeting of that body.

for the supplies needed, Mr. Case ad- ducers. vocated the formation of a stock comdent dealer so that the producers could obtain these supplies at the right prices.

#### AFTERNOON SESSION.

The principal items of interest at the institute and annual meeting of the New York State Association of Bee-Keepers' Societies brought out during the sessions held yesterday afternoon were regard to the best methods to be adopted by the honey producers to protect themselves from the high prices charged by the manufactures of supplies, and a discussion of the properties and value of the Caucasian bee. This is the now famous bee which the newspapers of the country have exploited during the past couple of years as the stingless honey bee.

#### COMPLAINT AGAINST COMBINE.

The first discussion was brought out

as possible with the latest develop- Marks declares that a few years ago ments and that by all means the insti- the several manufacturers of supplies tutes should be continued. President for the bee men were small concerns Marks advised the members to co-oper- with limited capital but that now they ate with the officers and make known are all combined and the capital of the the subjects they wish discussed at combine runs over a million. These these institutes, and also the speakers concerns have grown rich through the whom they wished to hear. The second sale of these supplies and made it immatter was also decided in the affirm- possible for the producer to buy except ative, the delegates voting to become at the prices set by the combine. He affiliated with the Agricultural Research declared that the producers had stood society and to send a delegate to the the condition long enough and that some remedy should be sought. In ad-These matters were followed by an dition Mr. Marks advocated the withaddress upon "Supply Manufacturer vs. drawing of the New York State As-The Honey Producer," by H. L. Chase, sociation from the National Bee-Keeppresident of the Ontario County Bee- ers' Association, stating that the as-Keepers' Society. The address of Mr. sociation was working more for other Chase favored some action on the part interests than for those of the honey of the honey producers looking toward producers and that it had come to a relief from the present conditions. All time when the producers must either of the manufactures of supplies have fight for control of the national assopractically formed a combine and as a ciation or else withdraw and form anresult the producers are obliged to pay other association which would work enwhat are considered exorbitant prices tirely for the interests of the pro-

The message also criticized in a way pany or co-operation with an indepen- the majority of the papers dealing with bee-keeping, the speaker declaring that the majority of these papers were run for private ends and not for the good of the man who produces honey. The message also touched on the fact that what the producer needed was more modern methods for selling and disposing of the goods. In the discussion which followed several of the speakers advocated the formation of a stock company for the manufacture of the supplies needed by the bee-keepers. One speaker declared that last summer he had written to over a dozen supply firms asking them for prices on the goods needed and that a comparison of the catalogues showed the prices to be exactly alike and from the appearances of the books it was evident that they had all been printed from the same press and that the same cuts were used in the president's message given by W. in all of them. It was declared, how-F. Marks of Clifton Springs. Mr. ever, that there were independent man-

ufacturers and that some of these were ing for them, he stated that it need not selling shipping cases for ten cents a cause the bee-keepers any unnecessary piece, whereas the combine wanted alarm, as the same condition existed seventeen cents. The discussion ended twenty-five years ago at a time when by a motion being put to the effect that it was reported before that a stingless the association elect a business man- bee had been discovered. The address ager who would look after the matter was followed by a discussion upon the of supplies and inform the members subject, which was taken part in by where the goods desired could be bought nearly all those present. the cheapest. The motion was seconded cordingly let go over.

#### A WASHINGTON OFFICIAL

cussion was followed by an address on discussed during the afternoon and the the "Honey Bee," given by Dr. E. F. Phillips, of the United States Department of Agriculture at Washington. Dr. Phillips talked principally on the ers' institute yesterday was taken up Caucasian bee, a new variety, which with two interesting addresses, one upon the government is at present testing "Bees and Flowers," by Professor U. and distributing to the bee-keepers P. Hedrick, horticulturist of the New throughout the country. This bee is York State experiment station, and the Black and Caspian seas, the newspapers United States Department of Agriculthe stingless bee. The result is that a showed the relation of bees and flowers, however, that the impression that had chard from the fact that they distribbeen circulated was entirely erroneous uted the pollen needed. In addition he gard to the practice of the government impossible to get along without them. sending these bees out to any one ask- Following the paper a bee man pres-

The afternoon session closed with a but President Marks ruled that under short address upon "How Can This Asthe constitution the matter could not be sociation Best Serve the Honey Protaken up at the time, and it was ac-ducers?" by T. I. Dugdale, secretary of the Fulton and Montgomery Bee-Keepers' society, West Galway, N. Y., The president's message and the dis- a question box on the several subjects appointment of committees.

#### EVENING SESSION

The evening session of the Bee-Keepa very gentle one, and when it was first other upon "Breeding and Improving imported from some point between the Bees," by Dr. E. F. Phillips, of the took the matter up and announced it as ture. In his address Professor Hedrick vast number of people have made de- both from the standpoint of the beemands upon the department for queens man and fruitman and showed that bees of this variety. Dr. Phillips declared, were almost a necessity in every orand that while the bee was a very gen- declared that the greater number of tle one, it was by no means stingless, of the new varieties of fruit was the as numerous people had discovered. result of cross pollenation by bees. The The bees, although gentle, would pro- only argument advanced against the tect their colonies. It has not as yet bee in orchards was to the effect that been determined just what their honey they help carry the pear blight, but producing qualities are. Of those sent this was not considered of any great out different reports had been received, moment for the reason that there would some favorable, and some placing the undoubtedly be a pear blight just the new variety in the same class as the same were there no bees. The whole older ones, but none of them entirely paper tended to show that bees were unfavorable. Dr. Phillips would not of a great deal more benefit to the fruit give an opinion yet as to the value of man than they were a damage, and these bees as honey producers. In re- that in certain lines it would almost be

telling of the narrow escape he had supers. from a lawsuit by reason of the fact from his neighbor's grafts. Several pronounced the very best. of the other men present had had the same difficulty, but they advised that a ficial" foundation, as starters, too. little pepper or carbolic acid mixed soon stop the bees working in it.

#### BREEDING OF BEES

tle breeders and breeders of other ani- the present market rates. mals. Bees in this country, as far as If Mr. Miller will get his acquaintance honey producing qualities are concerned, to reconsider his determination to avoid have not, as a rule, improved and this publicity in his experiments, and will is believed to be due to the fact that "turn on more light" he will convince very little attention has been paid to more of his readers, and if such base breeding. It is now announced that tricks are resorted to by bee-keepers the breeding of bees to produce certain he certainly owes it to the "good comqualities will soon be taken up the same mon people" to give the matter a thoras breeding of other stock.

#### MORE ABOUT FEEDING SUGAR.

#### Harry L. Smith.

HAVE just read Mr. Chantry's article on this sbject, in the January Bee-KEEPER, so, as I had overlooked the articles refered to in the November number, I looked that up and read them. Now I wish to give my experience:

I have kept bees for several years and have practiced feeding with sugar syrup to fit them for winter, and also to strengthen them in the spring so as to have them ready to make the most of the honey flow when it came and I have never found the slightest trace of sugar in the comb honey supers.

I say comb honey supers, as I have never extracted any honey and conse- conscience-that's a fact."

ent spoiled the record somewhat by quently have never used extracting

The comb honey thus produced was that his bees had stolen all the wax retailed in our villages near by and was

And this honey was made on "arti-

It seems to me that Mr. Miller as with the wax when it was put on would well as Dr. Claussen are frightened by a shadow, so far as the danger of injuring our markets through the presence The address of Dr. Phillips, which of syrup in our honey. My experience followed, was mainly an argument for contradicts that of Mr. Miller, in that the improvement of the honey bee by my bees never move honey from the breeding. He stated that the subject brood chamber to store in the supers; of breeding in order to obtain the so that would only leave the chance of proper kind of a bee for certain local-direct storage in the supers, and if the ities and also the best honey producers bees would handle the syrup in this would soon have to be taken up by bee- manner I doubt if anyone could produce keepers the same as it has been by cathoney from sugar except at a loss, at

ough airing and let the consumer see the vile deceit that is practiced on him. East Dixfield, Me., Jan. 20, 1906.

"There's nothing I hate so much as cant of all kinds; it's a sure sign of a tricky disposition. If you see a feller cant in religion, clap your hand in your pocket and lay right hold of your purse, or he'll steal it as sure as you're alive; and if a man cant in politics he'll sell

you if he gets a chance."

"Have you a boy? Well, make a farmer of him, and you will have the satisfaction of seeing him an honest, independent and respectable member of society; more honest than traders, more independent than professional men, and more respectable than either."

"A long face is apt to cover a long

## APICULTURE IN IDAHO.

Honey of Superior Quality, Though Bringing Immediate and Profitable Financial Returns is but the "by-product." The Growth and Prosperity, Almost the Very Lits of Idaho's Great Fruit Industry, and Acres of Blooming Alfalfa Depends to a Very Large Extent Upon the Little Busy Bee.

THE KEEPING of bees and the pro-River Valley is destined to become a pleasant and profitable rural industry of no small magnitude.

On our ever increasing acreage of fruit bloom, dandelion, white, red, alsike and alfalfa clovers, the bees make merry pillage, and in the hands of intelligent owners, the beautiful white comb or tities, and finds a ready market at satisfactory prices.

wintering, we of this more favored cli- of the clovers. mate need only see that our bees have sufficient honey to last until spring, store is really only an incidental to enleaving them on their summer stands courage us in their propagation, while without protection, and in April we may their great work is the pollenization of confidently expect to see nearly every the blossoms. Our valley produces two colony in splendid condition.

the natural home of the honey bee need der the government reclamation project be presented than the fact that in few the product will be increased many fold. localities does one see so many bees as Our honey brings top prices in Portland, here.

quota of bee-hives, from which the and California. rancher and his family secure the purest and best sweet in the world, direct from of fancy food products, is pure honey nature's own laboratories, the nectaries put up in paraffine paper bags of of the myriad flowers.

Nor are our bees the common brown gold.''

As Longfellow wrote in Hiawatha, so duction of honey in the Snake we find it here, in regard to the clearing and settlement of our new lands:

> "Wheresoe'er they move, before them Swarms the stinging fly, the Akmo, Swarms the bee, the honey-maker; Wheresoe'er they tread, beneath them Springs a flower unknown among us, Springs the White Man's Foot in blos-

Few people realize the indispensable liquid honey is produced in large quan- work of the bees in pollenizing flowers. Without the bees to perform this important work, many varieties of fruit are While the eastern bee keeper must wholly or partially sterile, while the pack his bees in chaff or sawdust, or bee is an absolute requisite in the growcarry them into the cellar to insure safe ing of some seed crops, notably some

The surplus honey that the bees may or more carloads of honey per year, and, No better proof that this is indeed with the opening of the new lands un-Seattle, Butte and Spokane, in competi-Almost every farmyard contains its tion with the finest product of Utah

> One of the latest novelties in the line various sizes.

This honey has been variously styled bees of the eastern states. Instead, alfalfa butter, crystallized honey, canthe bee hives of this valley are peopled died honey, or granulated honey. The with the best old Italian blood, the bee-keepers store their honey in large golden bees of which Virgil wrote so galvanized steel tanks, holding upwards long ago; "This better breed-their of two tons each. Here the beautiful bodies shine like drops of sparkling liquid honey of crystalline clearness clarifies perfectly, and with the coming process of granulation begins (all pure honey will granulate sooner or later, and this granulation is an indication of here were shipped to Boise nearly forty purity.)

granular, and at this stage it is drawn off through a large faucet into the paper bags.

The bags are placed in boxes, and in a short time the honey is almost as hard as a block of marble and fully as white. Many prefer the honey in this form; after peeling off the bag the honey may be sliced like butter, or, by heating, it is easily restored to its original liquid condition, just as it came from the comb.

When the consumer buys honey in glass or tin, he is paying for an expensive and useless jar, bottle or tin can, but when buying honey in paper bags, he gets his money's worth of honey, as the cost of the bag itself is merely nominal.

The Boise Valley contains one apiary of about four hundred colonies, another of three hundred, and many of fifty to one hundred and fifty colonies; one firm having seven hundred colonies located in eight yards, in the Meridian, Star and Roswell districts.

There are three firms engaged in the manufacture and sale of bee-keepers' supplies of all kinds, and one queenbreeder, who rears the finest selected Italian, Carniolan and Caucasian queen bees for sale. We are fortunate in having a satisfactory pure-food law to protect our products, and also an efficient law for the inspection of our bees and the gathering of statistics in regard to the industry.

While we have not been able to realize the dream of the poet, who saw

"A golden hive on a golden bank, Where golden bees by a chemical prank, Gather gold instead of honey,' vet for those who will attend to the details of bee management, the returns

of the cool fall weather, the natural industry, for the relative amounts of capital and labor invested.

The first bees to live and prosper years ago. They were fine Italians The honey first becomes cloudy, then from the apiary of E. Kretchmer, of Coburg, Iowa, and were destined to found the Boise apiaries of the late Mr. Morse, an old-time pioneer, and of Mr. McClellan, who lives at the south end of Twelfth street, where two of those old hives that came across the plains so long ago may still be seen, and in them the lineal descendants of those first bees to forage on the wild flowers then so plentiful on the low-lands near Boise.

> Honey then sold for fifty cents per pound, and a swarm of bees hanging on a limb sold readily for \$10.

> From this small beginning has sprung the thousands of colonies which are now scattered over this and neighboring vallevs.

> We have an efficient bee-keepers' association which ships in supplies from the east in corload lots, furnishing nearly everything needed to the members at jobbing prices and also finding a market and shipping honey in carload lots.

> This association was probably the first to agitate in favor of legislation to protect the bee-keeping industry, and to the efforts of its members is due no little credit for the excellent protection which we now enjoy.

> In this connection it may be well to state a fact which is not generally understood, namely, comb honey has never been manufactured, and cannot be manufactured, save by the bees themselves in the natural way.

To counteract the evil effect of the false and sensational assertions in regard to artificial comb honey, a reputable firm, with a paid-in capital of \$50,-000, has for years offered \$1,000 for a single pound of artificial comb honey. In addition to the above, the National will compare favorably with any rural Bee-Keepers' Association, with over

2,500 members, has out an offer similar thus we become undesignedly the means to the above, with no takers.

Agriculture is my authority for the or, at any rate, as a check, there should statement that there is no artificial be some words spoken in plain English, comb honey .- E. F. Atwater in Mid- in reply to the question, "Who should winter Number Boise Capital News, Feb. 6, 1906.

#### WHO SHOULD KEEP BEES?

#### A. A. French.

"E VERYBODY," was once the current answer to this question.

culture is the pleasure it affords. There is a fascination about the apiary which is indescribable. I doubt if there is any other class of manual laborers who engage in their business and dwell upon it loss in giving a categorical answer to keeper is to meet an enthusiast. The used to be, and are still, as to what contion as a pursuit.

ulated domestic establishment as a sew- the mistaken idea that they have been ing machine in doors. But people have got bravely over that, and many other crude notions that prevailed, even among bee-keepers themselves. The time has in that direction. now fully come for insisting upon it that perly qualified to do so.

every man from being his own honey producer. Among the numerous topics in the realm of apiculture, this deserves that in order to succeed in this business, inoculated to keep bees. Enthusiasm is to think that the true bee-keeper, like contagious, and it is no wonder that the true poet, is born, not made. people who know nothing of bee keep- No man succeeds very much in any ing eatch the infection and go away de- line of things which does not stir him termined, hit or miss, to start an apiary. with lively interest. But this alone is

of reducing our fellow beings into dis-The United States Department of appointment. As a preventive of this, keep bees?"

All will agree that it is not desirable for people to undertake what is sure to end in failure. Those who start at beekeeping and make a botch of it are very apt to decry the whole thing as a humbug, a delusion and a snare. No doubt the interests of bee-keeping as a whole, Among the attractive features of api- have suffered from the maledictions of sore-heads who, if they had been wise, would have never touched a bee-hive, except to throw it aside.

I confess I feel myself somewhat at a with the same fondness as does the bee- the question I have taken as a text. It keeper. Indeed to meet a scientific bee- reminds me of the discussions there profits, too, of apiculture urges its adop- stitutes a call to the ministry? Nevertheless there is such a thing as a call Thirty years ago it was the general to the ministry, and there is also such idea, a bee hive out of doors would be a thing as a call to bee-keeping. Many considered as much a part of a well reg- have hit their heads against a pulpit in called to be preachers. And just as many have blundered into bee-keeping, under the delusion that they had a call

Something would be gained if we could only those should keep bees who are pro- impress people with the conviction that it is not wise to follow mere impulses. The same law of division of labor There would be less danger of blunderwhich forbids every man being his own ing if they would seriously ponder the shoe-maker, or blacksmith, prohibits inquiry, "Am I cut out for a beekeeper?"

In a general way it may be safely said, a prominent place. After one has made or profession, there must be an aptitude a visit to a well regulated apiary, and for it. What that is, it may be difficult an enthusiastic apiarist, he goes away to state in detail, but I am fast coming

It is more often a miss than a hit, and not enough. The true bee-keeper must

have keen preceptions and be at once of tained. It matters little how this is an observant and reflective turn of mind. He must be a modern Job for patience, and a modern Bruce for perseverance. No matter what his natural aptitudes may be, he will make serious mistakes at first, and needs to learn that as Napoleon was woot to say, "He is not the best general who makes no mistakes, and as thoroughly as possible."

quality the bees are more than a match in a sense. With the invaluable bee have perfect self-control, for if a man available, the theory can be easily mascannot control himself, he may rest as- tered. sured that he cannot control the denicoveries.

education in bee-keeping must be ob- Watertown, N. Y., Dec. 13, 1905.

done, provided it be thorough. Let no one rush into bee-keeping imperfectly equipped with knowledge on the subject.

It is positively ridiculous to see how some people act in regard to this matter. They seem to suppose that they have only to get a few colonies of bees and but he who repaires them as quickly they are completely set up in the business. It is no doubt possible for a tyro He must not be irascible for in that in bee-keeping to become self educated for the most irascible mortals. He must books and excellent journals that are

Then comes the practical part; to zens of the bee-hive. He must be san- manage bees with an eye to profit from guine and hopeful, for he will see many honey productions, is an attainment far dark days. He must have a mind for beyond mere theory, however correct. details, and regard nothing as trifles I do not think this can be gained in any that has to do with the welfare of a other way so quickly or so well as for colony or an apiary. "Unconsidered the beginner to apprentice himself to trifles" have often led to important dis- some good practical bee-keeper, and happy is he who has the opportunity of In addition to the natural aptitude so doing. — Delivered before the Jefferwhich has been imperfectly sketched an son County Bee-Keepers' Convention,

## THE IMPROVEMENT OF STOCK.

An English Apiarian Authority and Author Discusses Some Phases of the Subject from the Standpoint of Science.

SAM'L SIMMINS.

of queens they use in attempting to se-neighbor's inferior stock. cure good honey yields? I believe the

E DITOR AMERICAN BEE-KEEPER: from her, while all the time, without Do most bee-keepers stop to conthought, he is getting these queens sider how much depends upon the class mated to drones from his other, or a

When he secures that high grade greater number certainly are aware of queen why does he not breed drones the vast importance of the queen in the from her by the thousands, or by the honey-getting business; and yet, after tens of thousands from her daughters, all, most producers find it a difficult rigidly excluding all other drones? Then matter to place a perfect queen at the with another high grade queen of a head of every colony in a large apiary, different strain for rearing young The average breeder of his own queens queens to follow, there is the probabilmay happen to secure an extra good ity that in the course of two or three one by purchase or otherwise, and years low averages will disappear. The forthwith he rears a lot of daughters process would be continued by breeding

drones alternately, each other year just mated, it is with some reluctance type of constant honey-getters.

can be secured.

#### WHY ITALIANS DEGENERATE.

It has frequently been observed that ing, very soon degenerate to little more than blacks. Especially is this true in England and most other European countries, where there are many dark colonies around.

The great features in securing this Carniolans and natives.

them in the race.

THE MATING OF QUEENS When one knows he has a fine queen

from the daughters of these selected that he decides to dissect her. I have high grade queens, thus securing a fixed thus destroyed many, and upon examination, within thirty minutes of a There is no reason why further high queen's return from a successful union grade queens should not be tacked on to with the drone I find the sperm sac only the fixed strain, using every following slightly occupied by spermatozoon showyear drones from the daughters of the ing that an hour or more elapses before fresh queen brought into the apiary, the whole is congregated in that won-This is the only way in which I have derful receptable; the membrane left been enabled to secure a really valua- by the male being the sole protection ble strain of Italians; the race as first while it is being slowly absorbed. A imported being of very little practical queen will occasionally mate more than utility. The widely varying results once, as I have had them do under my found in many apiaries is almost en- own observation. She may be out tirely due to the neglect of the drone too long after mating and get the living breeding process. Without a most rigid organisms chilled, or the workers may selection on the male line no fixed type too hastily remove the protecting sheath left by the drone within the passage toward the sperm sac.

In this connection we may note one Italians left to themselves, as to breed- of the most marvelous acts in nature; and, as I have had considerable experience in making considerable experiments in the artificial impregnation of queens, the conclusions I have arrived at may be of some value.

In the natural act there must first be transition are the undoubted fact that a mad flight of the insects in mid air, the native drone is stronger on the with from three to fifty drones in rapid wing than the male from imported or pursuit of the queen, whose body is most other yellow queens, and also that then extended to twice its usual size, the yellow drone requires particularly while the receptive passage is distended fair weather to induce him to fly freely, in the same proportion. Then with the Hence, where black drones abound, foremost drone nothing less than an exbreeders of Italian queens are digusted plosive union takes place. Those peto find ninety-nine per cent. of the culiar horns, projecting from the drone young queens turn out mismated. The on either side of the principal organ same rule holds good in the case of at the moment of the explosion first press wide open the outer or common In my own case I have been able to opening of the queen's abdomen, while reverse these conditions by swamping the central containing branch enters my locality with high grade drones the vulva, not direct, nor in a straight reared by selection through a series of line, but by the sheer force of an unyears, something on the lines indi- bending motion, throwing the spermacated above, so that my yellow drones tozoa together with a large proportion are stronger on the wing than any local of moisture, well forward into the common males and always outstrip oviduct, from whence it reaches the sac by gradual muscular contraction exercised at the will of the queen.

Every precaution appears to have

ing organs, detached from the ruptured cold bricks? The late Mr. Alfred drone, should remain until the act Neighbour, of London, imported these is accomplished, as the shrivelled re- some thirty years since, while other union takes place, as doubtlesss most of no practical utility. queen rearers have experienced.

come detached? Well, if any reader ing these general favorites by the sewill not hurry to remove a worker lection of both drones and queen-mothwhich has stung him, say on the hand, ers. If history repeats itself as hithhe will see the little creature imme- erto, this is what we shall do again. diately begin to spin round like a top, and yet again-stick to Italians. and so far from the bee being unable to remove its sting, it then does so completely. It is not always that it loses its sting, as so many have erroneously supposed.

The queen cannot get rid of the drone organs until they have shrivelled, but she does exactly as the worker, separating herself from her dying mate by to the honey-bee from the Caucasus. spinning round until she is freed.

is always a possibility to the advanced has been decisive. apiarist. A possible eventuality may ready carried out.

BREEDERS OF GENTLE WORKERS

It appears to be a law that queens which produce very gentle bees are not worth much for honey producing purposes. At the same time it must be admitted that locality and climate mod- gathering qualities to the other good ify many peculiarities in bees. Car- races we have, then, it seems to me, niolans appear to be exceptions to the would be the right moment. As for me, law; so also are some darker strains of I should want a bee that can sting. Italians. Carniolans crossed with Ital- This peculiarity of our honey-bee ians I have found to show no improve- has its good points, and I would not ment in honey gathering, while the re- want to miss them. If it was noised sulting workers are quite gentle; but around that my bees had no stings or cross either with the black bee and they did not know how to make use of them, store three or four times the quantity I am afraid my honey at the outyards of honey, though better stingers one would not always be safe. However, I will not desire.

#### CAUCASIANS

been taken by nature that the contain- keepers will drop these like hot-no, mains of it may often be noticed late English dealers have occasionally given in the evening of the same day the them a trial, only to drop them as being

I think we cannot do better than hold But how do the drone and queen be- on to the Italians, constantly improv-

> Broomham, Heathfield, Sussex, England, Jan. 10, 1906.

#### INTRODUCTION OF NEW RACES.

#### F. Greiner.

WHAT COULD be learned from did not produce a favorable impression If fertilization in confinement has with me. After an elapse of 25 years been a failure, the selection of the or more I feel no desire to even give vigorous drones, as already observed, this bee a trial. The first impression

The bee that was tested years ago be the artificial impregnation of queens, may have been a worthless strain and judging from experiments I have al- it would be well to further test other strains and control the experiment. Still. I feel no desire to undertake it myself. It is a question whether it is good policy to flood the country with these bees at this time. When the bee has proven that it is equal in honeyfear little of the unduly large amount of gentleness of the Caucasians, for I wonder how soon American bee- gentleness of our bees is largely a a lot of bees could be educated (a la lated into an American journal it may Coggshall) to become stingers. The be well perhaps to correct it since this great fear, however, is that the blood journey is of some interest to American of worthless bees may find its way into our yards without our being able to hinder it. claimed, much less shown, that, as to the mistake was made by the French productiveness, the Caucasian bee is author in confusing our dollars with superior to other races we now have.

The Carniolan bee has proven itself gentle enough for any one and as producers of fancy comb honey hardly find culture for the fiscal year ending July next choice. It is true that some indi- author would have it, is rather small. vidual colonies of Italians do pretty they do not, and some especially bad father on this trip. colonies give us a product decidedly inshould be spotted by the bee-keeper might well wonder what was becoming and either run for extracted honey or of such a large amount of money. their queens should be replaced by something better.

It is my aim to establish a small apiary of black bees is the nearby hills -perhaps rear a few choice queens for sale.

Naples, N. Y., Feb. 3, 1906.

#### DR. PHILLIPS CORRECTS ERRORS.

United States Department of Agriculture, Bureau of Entomology, Apiculture, Washington, D.C., Feb. 12, 1906. Dear Mr. Hill:

I notice that in the February number of the American Bee-Keeper you have an article entitled, "Prof. Benton Abroad'' which is translated from L'Apiculteur. I noticed this article in the original and saw that it had one or two

matter of education, and, if necessary, mistakes, and since it has been transbee-keepers.

The annual appropriation for apicul-So far it has not been ture is far from being \$50,000. I judge the French francs, but our annual appropriation is not even 50,000 francs (\$10,000). The total allotment for apia match. I have noticed that exhibi- 1st, 1906 is \$8,000, of which \$2,300 is tors who carried away the prizes on set aside for Mr. Benton's expenses. comb honey kept Carniolan bees. I at- Of the remainder only \$290 remains for tribute the neatness, the snowy white- the running of the office, apiary and ness of their section-honey to this traveling expenses after salaries and fact. Those who contemplate making rent are paid. When the fact is conexhibits at state fairs would do well to sidered that any honey and wax that is make a note of this. The Carniolan produced does not add to our income, it bee is extremely well fitted for the will be seen that this appropriation inwork. Native black bees would be my stead of being as liberal as our French

I may also add that Mr. Ralph Benton good work, but, generally speaking, was not appointed to accompany his

I mention this matter of the approferior as to appearance. Such colonies priation because American bee-keepers

> Yours very truly. E. F. PHILLIPS. Acting in Charge of Apiculture.

#### Even Unto This Day.

"I consider it to be courteous and to indicate an ingenious modesty to acknowledge the sources whence we have derived assistance, and not to act as most of those have done whom I have examined; for I must inform you that in comparing various authors with each other, I have discovered that some of the most grave and of the latest writers have transcribed word for word, without making any acknowledgment." Thus wrote Pliny in A. D. 77. Sounds up to date.

The cheery smile oft hides a broken

### ARTIFICIAL HONEY-COMB.

One Writer Who Evidently Thinks it Unwise to Publish the Whole Truth.

J. E. JOHNSON.

WAS surprised to see, in the Jan- was being put upon the market? uary BEE-KEEPER, an account by Mr. Miller says on page 175, S comb being made 30 years ago.

doing a very wrong thing in making its purity." statements that he does in that article. comb has or can be made."

mistaken. It has been and still is but the implements to make it with. claimed that artificial comb honey canDoes he intend to put this evil upon not be made, and this is still true, as the market? I hope not. been done and probably never will be sugar and comb foundation.

son." Such statements by bee-keepers mostly imaginary. furnish the best food for glucose men very little use of associations or leagues in spring will ever reach the super. being organized to popularize honey or The greater harm is to continue such make it interesting.

Mr. Miller says on page 175, Septem-Mr. A. C. Miller of artificial honey ber, 1905, AMERICAN BEE-KEEPER: "Comb foundation in section honey is However, I feel that Mr. Miller is accountable for much of the distrust of

Has Mr. Miller so changed his mind He says: "It has been strenuously as- that he now thinks that fully drawn serted that no such thing as artificial comb artificially imitated will be hailed with delight? Mr. Miller says he not I must say, Mr. Miller, that you are only has samples of this artificial comb

in filling the cells and sealing it over I very much admire Mr. Miller's lies the difficult task. This has not writings on all subjects except feeding subjects he, I think, carries to ex-But I want to call attention to another tremes. Of course we all have differstatement. Mr. Miller says: "Mr. ent views on these questions. Mr. Mil-Shaw's invention of artificial comb was ler's accounts of the ancient things of ahead of the times and failed to be of bee-keeping, as well as the possibilities profit to him. Today it would be appre- of the future, and his study of bee ciated and there is a possibility of its be- nature are valuable. However, I think ing put on the market the coming sea- the evil of sugar feeding for surplus is

Like Thos. Chantry, I say it cannot to start fresh lies about artificial comb be done with profit, nor will it be done honey flooding the market. It is of with profit, and very little if any fed

put down the lies already being pub-discussions, which only has a tendency lished in the daily papers concerning to influence the consuming public to artificial comb honey, when the editor imagine that our product is of inferior of a bee paper will make such state- quality. I, however, think Mr. Chanments to furnish food for the sensa- try's testimony is valuable and ought tional reporters of the press, who do to end this argument which is harmful. not hesitate to add a little more to Mr. Niver tried this matter and got results very similar to Mr. Chantry's, Mr. Miller says, "Today it would be and gave an account of his experience appreciated." I would like to ask by at the Chicago convention three years whom it would be appreciated? Does ago. He fed about thirty pounds of Mr. Miller think that the bee-keepers sugar to get three pounds of sealed would rejoice to hear that artificial honey. No one can say that they have comb like the section shown on page 6 made a success of sugar feeding except for winter stores or early brood rearing. Williamsfield, Ill., Jan. 8, 1906.

The following, by Mr. Miller, very clearly presents his personal premises in the matter; and as it bears so directly upon the points questioned by Mr. Johnson, we give it place here.—Ed.

#### Why Misrepresent?

The late League issued a 24 page pamphlet on the so called "Wiley Honey Lie." It reflects far more discredit on the compilers than on the originator of the story. It is ungentlemanly and un-Christian. No wonder the plain beekeepers repudiated an organization which would put forth such a document.

In connection with this subject it may be well to say that perfect combs of paraffine wax were made long before Prof. Wiley's remarks, and further we have the statement of a bee-keeper of high character that in the late 70's he bought such combs filled with syrup and neatly sealed.

A little less spleen and a little more investigation at the time the professor made his statement would have revealed the Shaw invention, given the beekeepers a useful article and saved many heart burnings. Truth will hurt no one so let us thoroughly ventilate this "artificial comb-honey" story.

First: It must be conceded that perfect artifical comb can be made. Second: Filling it with honey or syrup would of course be easy. Third: Capping it has been accomplished.

There, you have it. What of it? Does it hurt your business? You have been told so but how many of you have personal proof thereof? For 25 years you have howled at Prof. Wiley's statement and what has it accomplished except to make outsiders call you a lot of hot headed bigots.

Suppose you now own up to the fact that there was ground for his story? Does it follow that your business will go to the dogs? All your railing has not changed public belief. But say to them— "Yes artificial comb honey can be produced but it don't pay. Bees' labor is cheaper than machinery and human labor"—and you have struck the part of the American anatomy that always hears, is always alert, the "commercial sense."

"It don't pay" will kill the most plausible commercial yarn.

Artificial comb of paraffine need never worry any one. It won't stand the heat. Artifical combs of wax in the sections would be worse than the heaviest foundation and they would cost too much. They would not pay. But artificial combs for the brood nest or extracting super may prove to be a real boon. The test thereof is yet to come.

ARTHUR C. MILLER.

#### Popular Science in Newspapers.

#### Burton N. Gates.

"IT IS difficult to understand why the daily press should have so little regard for the truth at least when nothing is to be made by the falsehood! Just what is gained by objectless, stupid inaccuracy it is hard to say. An article on some scientific subject, for example, has no news value, and we may presume it is published for the edification of the more intelligent readers. Often, however, such articles contain so many gross misstatements that far from winning the commendation due alleged newspaper enterprise, they arouse only contempt and ridicule. Woe to the men whose misfortune it is to be interviewed for an article of this nature, unless he has the foresight to make written replies to the questions asked him."- The Editor (Frank M. Chapman) in Jan.-Feb. Bird-Lore.

Is this not quite to the point in the present day artificial honey and comb honey situation? Non-technical and uninformed reporters and editors misconstrue carelessly made statements. Seek the primal cause as the above editor has done: "Make only written replies to the questions."

Worcester, Mass.

#### THE

### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

#### THE W. T. FALCONER MFG. CO. Proprietors

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#### HOW TO ADDRESS.

The home office of The American Bee-Keeper is at Falconer, N. Y., and all matters relating to subscriptions, discontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office. Matters relating to the editorial department— manuscripts, photographs, or correspondence in

any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida.

#### DISCONTINUANCES.

The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages, if any are paid. Those who wish the paper discontinued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter.

"Simplified Queen Rearing for the Honey Producer," is the name of the latest production of the "Swarthmore Shops." This is the fourth in a series of papers by E. L. Pratt, to whom we are indebted for an advance copy. der the nom de plume, "Swarthmore," Mr. Pratt has issued a number of booklets of especial interest to gueen breeders, and his latest is in every respect up to the established standard.

Mr. Green, in Gleanings, says that the use of rubber bands in transferring is a novel idea and may prove valuable. Old as the hills, brother. Good too.

As an alert and beneficial organization among bee-keepers, none, perhaps, can make a better showing than the St. Croix Valley Honey Producers' Association, the headquarters of which is at Glenwood, Wis. This society provides its members with apiarian supplies and handles the honey crops also, to the greatest possible advantage. A pamphlet has recently been issued, which presents a financial statement for 1905, with numerous helpful suggestions to the producer and shipper of honey in Wisconsin; also a catalogue of supplies. Under the leadership of its organizer and present manager, Mr. Leo F. Hanegan, this association promises well for the future. His push, pluck and progress are admirable.

Mr. T. K. Massie, an occasional contributor to these columns, is doing some good work in his department of the Rural Bee-Keeper. T. K. is not in good standing as a member of the "Mutual Admiration Society," and his criticisms of current literature are not only interesting, but refreshing to a notable de-We do not coincide with all Mr. gree. Massie's expressed views; nor does he agree with the American Bee-Keeper in all things, but we admire his independent thought and resulting expression.

Rhode Island bees were gathering pollen from crocus January 21, 1906, which, so far as we know, breaks the record for early pollen in New England. And a few days later the temperature was below zero, Farenheit, and all nature was locked fast in frost. place to winter bees, isn't it?

The associated bee-keepers' societies of the State of New York have withdrawn from membership in the National, and societies of other states are contemplating similar steps. The plain bee-keepers are taking control of their own affairs and leaving the "ring" to flock by itself.

#### Good Bee-Keepers are Not All Good Salesmen.

the art of seiling as well as producing, cupied by an interesting address by branches. Some few there are who are ricultural college, on a new bee disease adept at one or another of the special just discovered by Mr. James Wood, of branches of the art, such as queen rear- North Dana, Mass. A careful descriping for instance. The successful pro- tion of the symptoms and cause of the ducer who has not the gift of salesman- disease and its treatment together with ship had better, if he can, combine his an outline of bacteriological studies of interests with some member of the craft it were given by Prof. Paige. He has who has that gift, and if the latter has promised an article on the subject, not the former's ability to successfully which we hope to present to our readhandle bees the combination should be ers soon. mutually advantageous.

the crop of several producers, he taking Co-operative societies are apt to be un- now become a member. And the smaller the interests involved lively society. the more friction.

whereby members of the craft can and some 50 persons were turned away. market their products at less expense or to better advantage we shall be be held in Horticultural Hall, Worcespleased to hear from them. It will be well to have the marketing plans settled well in advance of the time they are to be put into execution.

Remember the success of the Jap's "preparedness."

season's work, study it, see where you its grave. "By their works ye shall might have done better and make notes know them." for this year's betterment.

Can you use a few sample copies?

#### A Successful Meeting.

That enterprising body, the Worces-Co-ordination of all branches of api- ter County (Mass.) Bee-Keepers' Soculture is essential to the greatest receiety, held an all-day "Institute" on turns. A few men are able to master Feb. 10. The morning session was ocwhile others excel in but one of these Prof. James B. Paige, of Amherst Ag-

A banquet was served at noon at Membership in a bee-keepers' society which about 70 persons were present.

ofttimes develop opportunities in these The afternoon session was devoted to lines. Where a direct partnership is practical bee-keeping, particularly as not possible, or for personal reasons not adapted to the village resident. Addesirable, arrangements can sometimes dresses were made by Arthur C. Miller be made whereby one bee-keeper skilled and Allen Latham, and a question box in salesmanship can be secured to sell brought forth some interesting remarks.

The society changed its charter so a prearranged percentage for the work. that any resident of New England may wieldy, and too many persons have a persons may obtain desired information finger in the pie. It seems difficult for on the subject by writing Mr. Chas. R. the members to vest proper authority Russell, the secretary, at Worcester, in the hands of suitable persons and Mass. We advise all bee-keepers withgive them the necessary confidence, in easy reach of Worcester to join this

The hall was insufficient to hold all If any of our readers can suggest ways who desired admission in the afternoon

> The next meeting of the society will ter. March 10.

Some of the principals in the late malodorous League are now talking of how hard they are working for the interests of the craft, of their independence and freedom from all entangling alliances, Look over the records of your past and this with the League scarce cold in

> We are in the market to buy good photographs of apiarian subjects.

#### Colony Odors-Information Desired.

In Gleanings for Jan 1st the editor, writing on small nuclei for queen rearing says: "So small a cluster can very easily be scented to an extent that it loses its body or individual odor, when it will attack its own queen." As the said queen is a part of the said cluster we would like to ask in all humility how it chances that she too does not undergo the same change or loss as all the rest of the individuals of the cluster? Also we would ask that, if the smaller the bunch the sooner it loses its individual odor, and the more rapidly it acquires a foreign odor, why the same writer advises as necessary for safe introduction to confine for 24 or more hours in the receiving colony, the single queen (the smallest "cluster" possible) in order that she may have time to acquire the new odor?

It is said of the Caucasians that they will swarm frequently if not kept in large hives. Is it possible that the beekeepers are so well stocked with eightframe and Danz hives that the trade is getting stagnant? Are we to see mental somersaults among the elect and a combined advocacy of a new race of bees and a new size of hive? The beekeepers have been fooled on sundry occasions but they are not to be fooled all the time. Tell us your experience, boys, and we'll print them.

Did it ever occur to you that many of the terms we American bee-keepers use are awkward or but imperfectly descriptive? For example, we laboriously say "bottom-board" or "floor-board," when "floor" would suffice. Again, we painstakingly say the "old colony" or "parent colony," while our English cousins say "stock" and are done with it. And the list may easily be lengthened. Wake up, bretheren. Get alive.

Artificial swarming, just as now taught, was practiced and advocated as long ago as 1836.

Gleanings has materially improved its appearance recently, having a hand-somely designed cover executed in half-tone, which presents a very artistic effect. Each issue also gives an index to advertisements, which are classified for the convenience of its readers. For example, under the heading, "Publishers, Bee-journal," the following list is given: W. Z. Hutchinson, The A. I. Root Co., Geo. W. York. The half page advertisement of the W. T. Falconer Manufacturing Co., publishers of the American Bee-Keeper, does not count.

Dr. E. F. Phillips, acting in charge of apiculture, U. S. Department of Agriculture, Washington, is the author of a new work on queen rearing, the title of which is, "The Rearing of Queen Bees," and issued as Bulletin No. 55. Dr. Phillips is taking a very active interest in the welfare of American apiculture, and we doubt not that, if the craft should profit in proportion to his efforts and sincere desire to assist the industry, there will be rejoicing throughout the land.

"There are some folks who think a good deal and say but little, and they are wise folks; and there are others again, who bleat right out whatever comes uppermost, and I guess they are pretty considerable darned fools."

Mr. Ira Barber, one of the veteran bee-keepers, whose name was familiar to readers of periodical literature pertaining to bee culture during the past twenty years, died at his home in Eddy, N. Y., January 27th.

If you want to hear something good of the Caucasian race of bees, read the queen advertisements in almost any bee journal. Advertisers speak very highly of their wares, as a general rule.

"Dark combs are an indication of liver trouble and indigestion," says a poultry journal. We had supposed that "dark combs" were an indication of continued brood-rearing.

### HONEY AND BEESWAX MARKET.

Buffalo, Dec. 6.—The supply of honey is only fair and more needed are deem and is good for fancy. We quote our market today as follows: Comb. fancy, 12-14, No. 2, 8-10c. Extracted, 6-8c lb. in 5 gallon cans. Beeswax 28-32c. Really fancy one-lb comb is wanted, but lower grades move slow and have to be cut accordingly.

Batterson & Co.

Chicago, Feb. 7.-The demand is about normal with sufficient stocks to meet all requirements.

The best grades of white comb honey bring 14c to The best grades of white comb honey offing 14 to 15c, with off grades at 1 to 3c less, depending on color, condition and shape. Extracted, aside from white clover and basswood (choice grades of which are practically unattainable) is in ample supply at grades still lower. Beeswax 30c per pound.
R. A. Burnett & Co.

Boston, Feb. 9-The demand for strictly new boston, Feb. 9—The demand for strictly new honey continues good, with a light supply, while there is a large stock of old honey carried forward from 1904 that moves very hard. Strictly new stock, fancy grades, 16c, and from that down to 14c, according to quality. Extracted is moving quite freely from 6 to 8c according to quality.

Blake, Scott & Lee Co.

Kansas City, Mo., Dec. 7.—The supply of honey is good. The demand is fair. We quote our market today as follows: Comb, \$3.25 per case. Extracted, &c and &c. C. C. Clemons & Co.

Cincinnati, Jan, 20.-The honey market is quiet. We do not offer white clover extracted honey on account of its scarcity; instead offer a fancy water white honey, equal to if not better than the white clover, in 60 pound cans, two in a crate, at 7½ to 8½c. Fancy light amber at 7½c; other grades of amber in barrels at 5½ to 6.3-4c according to quality; fancy comb honey, 16½c.

(Bee-keeper, please observe that the above are our selling prices of honey, not what we are pay-

ing.)
We are paying 30c per pound, delivered here,
for choice, bright, yellow beeswax.
The Fred W. Muth Co.

51 Walnut street.

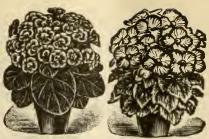
New York, Dec. 6—Comb honey—The demand continues to be fair for all grades. Prices practically remain the same. We quote fancy white at 14 to 15c; No. 1, 13c; No. 2, 12c; buckwheat 10c per lb. Extracted honey is in good demand, especially California, with large supplies. We quote white, 6½ to 7c; light amber, 5c; buckwheat, extracted, 5½ to 6c per lb. Beeswax, firm and steady at 29 to 30c per lb.

Hildreth & Segelken.

## Bee-Keepers

We carry a full line of FAL-CONER'S BEEKEEPERS' SUP-PLIES, and that means THE BEST, and sell them at factory prices, f. o. b. Savannah, Ga. Order from us and save freight charges. Catalogue free for the asking.

Harden & Rourk, Savannah, Ga.



BULBS, 25 Cents.

For in or out of doors growing Gloxinia, Begonia, Iris, Scilla, Tuberoses, Jonquils, Daffodils, Oxalis, Freesis, Tulips, Hyacintis, Croens, Japan Lily, Snowdrops, Narcissus, Allime, Chionodoxa, Paconia. For 25c., stamps or ordin, ne will seem this magnificent collection of bulbs, and also as a premium a fine FREE collection of flower seeds, 250 varieties, FREE Orderto-day, and he sure to get them in time for planting. WOODLAWN NURSERY, MALDEN, MASS.

#### BEGINNERS

Should have a copy of

### The Amateur Bee-Keeper

A 70 page book by Prof. J.W.Rouse; written especially for amateurs. Second edition just out. First edition of 1,000 sold in less than two years. Editor York says: "It is the finest little book published at the present time." Price 24 cts., by mail, 28 cts. This little book and

#### Progressive Bee-Keeper

A live progressive, 28 page monthly journal, one year for 65 cents. Apply to any first class dealer, or address

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### S YOU CAN Do It. Medallions "Peuro or Pearl" New Medallions. Quick sellers. Big Money. Write at once. Special territory given. Largest Medallion Comp'y in the world. Agents' supplies. Novelties up-to-date. Write now. Universal Manufacturing Co., Pittsburg, Pa.

## 3 and 5-Banded ITALIAN and CARNIOLAN OUEENS

Say, friends, you who have supported us during the past season, we desire to express our thanks for your patronage in the past, and respectfully solicit a continuance of your valued favors through the season of 1906.

Our queens now stand upon their merits and former record. We are preparing for next season, and seeking the patronage of large apiarists We do not claim that and dealers. our queens are superior to all others, but that they are as good as the best. We will furnish from one to a thousand at the following prices: Tested, of either race, \$1; one untested, 75c; 5 for \$3.25; 10 for \$6; 15 for \$8.25; 25 for \$12.50; 50 for \$23.50; 100 for \$45. For descriptive circulars address,

## John W. Pharr, Prop.,

New Century Queen Rearing Co., Berclair, Goliad Co., Texas.

### OUR LEADER.

Modern Farmer\$ 25)	Our
Woman's Home Companion 1.00	price
Cosmopolitan 1.00	for all
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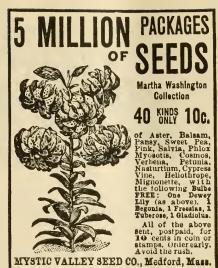
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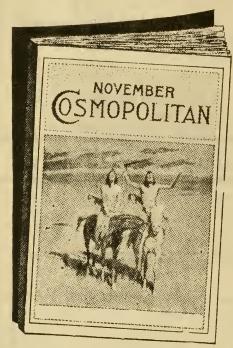
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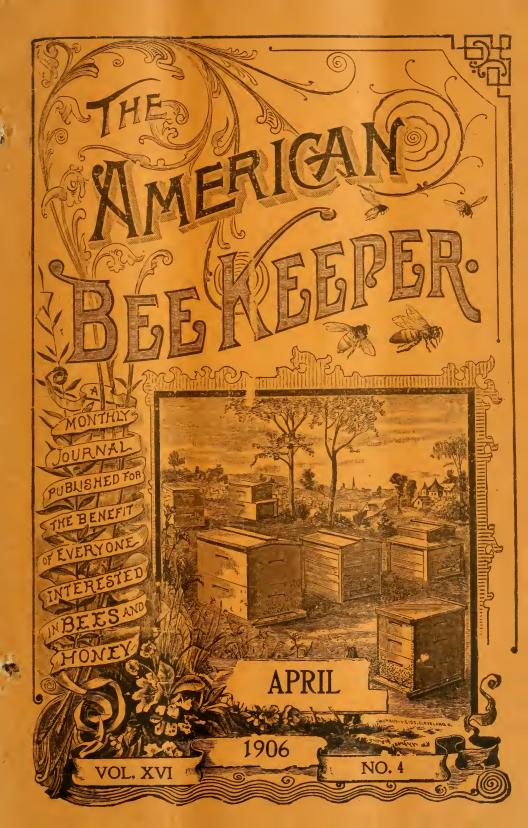
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### The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter

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No. 4

#### PRESIDENT'S MESSAGE.

Convention New York State Association Bee-Keepers' Societies, Geneva, N. Y., December 18-19, 1905.

W. F. MARKS.

MEMBERS OF THE New York State vention is vested in an equal number of cieties. Ladies and Gentlemen:-It is societies, which together form this orthe custom for the president to open ganization, thus, each local society has the annual meeting with a short "mes- an equal voice in its management, sage," Personally, I am ashamed to making it in fact a representative body. take any of your valuable time for this purpose but I will endeavor to be brief. what this organization has already ac-The prime object of this organization complished, that is a matter of record, according to its constitution, is "to se- but let us press forward, there are live cure a state bee-keepers' organization issues to meet and important problems that is systematic, representative, and to solve. I will mention some of them, vigilant, to devise ways to promote but they are for you to solve. measures that are of general interest that may be thought desirable.

Association of Bee-keepers' So-delegates from the several auxilary

We need not enumerate at this time

Profiting by experience we as honeyto the bee-keepers of the state." If producers should see that in this organthis is not broad enough, the constitu- ization the honey-producers' interests be tion can be amended at any annual paramount, now and forever. We must meeting so as to embrace other objects keep the organization from all "entangling alliances," we should beware It is not necessary that we should of those "allied interests" who would endeavor to make more, but better, blind you by flattery and profession of honey-producers and to advance and undying esteem, while they "combine" protect the interests of those we have, to advance the cost of their wares, in every legitimate way. This associ- your supplies, in order that they may ation differs materially from other or- reap an unreasonable profit at your exganizations of like character, in as pense. Do any of you believe, for a much, as the real power of this con- moment, that it was necessary for

our "allied interests" to "combine" in All, or nearly all, of our auxiliary sothem or go without,

Will you permit the supply manufac- conversant with the situation. turer and their close ally, the bee-peri- The question, then, is, should the nation?

have no one to blame but themselves; several interests clashed, without a perthe whirlwind." Do what you may you position in that organization, which I cannot avoid the issue, with honor to did at the first opportune time. I have yourselves, or to posterity. Sooner or gone into this matter further than I inlater, it must be met in a vigorous tended, but I thought an explanation manner, that will leave no doubt of was due the members from this state your intentions and ability to cope with for my action, which I believe you it. I present the subject for your con- would certainly approve, did you know sideration.

order to secure a reasonable profit? cieties have made it a practice to join Stop, put on your thinking cap, and for the National Bee-Keepers' Association a moment turn back the pages of time. in a body, as provided in the constitu-Only a few years ago we find our "al-tion of said association. There is no lied interests" working on a small capi- question but that such affiliation strenghtal, with hand and foot-power machin- ens the National Association, but at ery. Where do we find them five, ten, the expense of our local societies and fifteen, twenty and twenty-five years ultimately of this Association. There later? With immense factories, the is a question whether the practice should most modern machinery, agencies in be longer continued. It is hardly necnearly every country on the globe, a essary for me to say that it was partly paid up capital of a million dollars or through my advice that such affiliation more, we know not just how much, was made possible. I had hoped that but one company alone with an in-the National Bee-Keepers' Association vested capital of three bundred thous- could be made what its name implies. and dollars, does not that look as though I worked earnestly and faithfully to there had been profit enough? all made bring this about, but I am convinced by before the "combine," yet they were actual experience that there are too not satisfied—they tell us to buy of many "other interests" represented in that organization to ever make it a true Are you going to put up longer with honey-producers' organization, without this imposition? Need we ask "upon a disagreeable and continual contest. what meat does this our Caesar feed?" This must be evident to you who are

odicals, to be our "masters"? or will honey-producers fight for the control of you stand together, and meet combi-that organization, or should they abandon it, and in due time organize a Na-I number many personal friends tional Honey-Producers' Society, in among the "allied interests" but I have which from the start "other interests" spoken no less plainly on that account are excluded? I have no personal grievas I believe they are imposing on the ance with the National Association. My honey-producer. Is it not time to call personal and official relations with that a halt? Recognizing and respecting organization, and with its board of dithe rights of others as you do they also rectors, of which I was a member, were must be made to realize that the honey-pleasant, but as soon as I became conproducers have rights, which must be vinced that "other interests" were domrespected and which you will defend at inant and that the honey-producers' inany sacrifice. Our "allies" by their terest could not be promoted nor mainown free action, raised this issue, they tained in that organization, when the "having raised the wind, let then reap petual fight, I determined to resign my all that led up to my conclusions.

should be construed as a personal reflec- you should be organized independent of tion in any way upon the officers of that them. Perhaps you cannot do any betorganization, with whom I was asso- ter; certainly you cannot do any worse. eiated; I believe that under the pre- I have repeatedly called your attenvailing conditions, they, like myself, tion to the need of more modern methwere powerless to change those condi- ods for disposing of your products. I tions. Right here let me say that the have just as frequently urged you to honey producers influenced by the bee give these matters your earnest attenperiodicals, which are to be classed, tion and thought, in hopes you could with one exception, with the "other devise some way to increase the use of interests," are largely to blame for the and facilitate the sale of your products, lack of better conditions in said associa- This is an old subject, but it is not less tion. The honey producers must learn important on that account. I beg of to think and act for themselves in such you not to lose sight of the fact that matters. Remember that most of the you are practically at the home of the editors are either interested in supplies consumer-forty million of people, one or are on office bent, so much so that half of the population of this country these infallible gentlemen get together are within easy reach-but a few hours every few months and, unbeknown to distant at most. Look at what other the honey producers, "organize" some industries are doing and profit by their alleged bee-keepers' or honey produc- experience. Let me again bring this ers' "this, that or the other thing," subject to your attention and urge you and of course elect themselves officers to give it your best thought, not only with almost Divine rights and power. now, but throughout the year. This has been practiced to such an extent that it has really become method in our work, whatever we do, scandalous, and has cast ridicule upon in order that we may gain substantial the industry at large. But, to return and lasting results. The greatest good to the subject, I do not mean to say or to the whole industry should at all times imply that the national association has be our motto. No individual honey-pronot done anything for the bee-keepers, ducer or auxiliary society should get the It has done a great deal toward estab- idea that they are not to a large extent lishing the legal rights of those engaged dependent upon those who are engaged in the pursuit (this you will observe did in the same pursuit. You should look not conflict with "other interests"). upon such, if there are any, not with I believe this year the members were contempt, but with pity. You should able to purchase pails and cans of inde- endeavor to build up, strengthen and pendent manufacturers, at reduced improve our organization and make it rates, through the efforts of General beneficial to the honey producers in remember the same privilege and rates courage independent manufacturers of were withdrawn by the manufacturers bee supplies. This you can do by pledgat the behest of our self-styled "allies" ing yourselves individually and as a following up their golden rule.

the honey producers require immediate periodical, edited and published wholly attention and organized effort. It is in the interests of the honey producer, on this point that the National Associa- and you should pledge it your support. tion is worse than nothing. I say worse In this way you will get new capital to than nothing because you are wasting invest in these enterprises; or what

Nothing that I have said, or may say, time with it, tied to your "allies" when

There should be not only motive, but st year you wilt every possible way. You should enbody to purchase such independent sur-Other matters of vital importance to plies only? Do it today. You need a

ranks. Why not? Our "allied inter- look bad. ests," through correspondence schools trying to increase the number of honey comb from it. producers without limit. Give them a as they stand by you, let come what get any pollen up to this date. will.

I informed you a year ago that a temporary organization, consisting of fourteen of the allied agricultural organizations of this state, including our own, had been formed, known as the New York State Association for the Promotion of Agricultural Science and Research. At a meeting at Ithaca, Oct. 2-3, at which time, this organization was represented by its president, such organization was made permanent by the adoption of a constitution and the election of officers. If this meets with your approval, our industry will take its place with the great agricultural in-It is said to be dustries of this state. the first organization of its kind in this country, as the objects sought are identical, it is hard to conceive how it can be anything but beneficial to all.

In conclusion, I will again urge you to give these matters, in fact all matters that may tend to better the conditions and advance the interests of the honey-producers, your best thought and study. These problems must be solved, and solved correctly. The honey-producers must have a fair, "square deal," and must not rest until they get it.

#### COMB HONEY WEEPING.

EAR EDITOR: Would like to know the cause of comb honey being so thin. It has been

would answer your purpose just as well into a warm room. I produced 500 you might encourage some that are al- pounds of fine comb honey last season, ready established but who are not sat-besides some that was not so nicely isfied with existing conditions and are filled, and some extracted, and in spite willing to give the honey-producer a of all I can do some of it will leak and square deal, to enter the independent run down over the comb, making it

Our main honey flow here is from and every other conceivable way, are white clover, and we get very white

We have had a fine winter for bees dose of their own medicine. If inde- here. I think it has been cold enough pendent manufacturers or capital does to keep them in most of the time. It come to your aid, stand by them as long has not been warm enough for them to

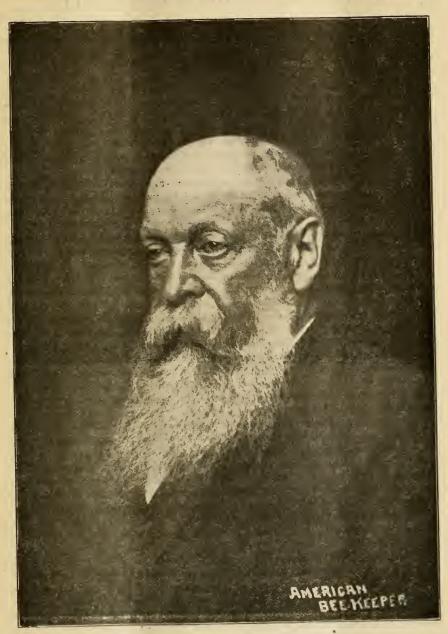
> My bees have died less this winter than they did last, although they went into winter last fall very weak in numbers and not much pollen.

D. H. ZENCKER, Upperco, Md., March 12, 1906.

(Doubtless, the chief cause of your trouble may be attributed to variable temperature. Such a condition results in a condensation of moisture upon the surface of the capping, and is known honey producers as "weeping." Comb honey should always be stored in a warm, dry room. Under such conditions it will improve as time passes; while in cold storage or in a temperature that is constantly changing it will deteriorate very fast; and when the "weeping" stage is reached it is no longer a merchantable article, and should not be offered to the public, as the condensed moisture is attracted through the cappings and absorbed by the honey, thus greatly reducing its body and imparing the quality of the goods.-Editor.)

Cast your eye over the field, and if you see an opportunity to buy more solid apiarian information for a dollar than THE BEE-KEEPER is giving with a three-years subscription at that price, buy it quick. It's a bargain.

We buy and pay cash for helpful and that way all winter, where it is brought interesting contributions.



JOHN MARSHALL HOOKER.

Born, April 26, 1829

(See page 80)

Died, January 31, 1906

#### RESEARCHES ON THE POISON OF BEES.

The Physiological Effects. By C. Phisalix. Translated by Burton N. Gates, Clark University, from "Comptes Render De l'Academie des Sciences."

Vol. 139, pp. 326. Paris, 1904.

NTIL THE PRESENT day others, increasing weakness. The bird staggers acids.

the poision of the domestic bee, (Apis feet, wings, head and eyes are conthe active principal in a base soluble in comes difficult and the bird opens its

like that of Tules (Tules is genus of the mal retains for a time its consciousness one kind of gland, appears improbable rupted frequently, by periods of somnocur in the secretion. The more general comes, after two or three hours from type is where the venom secreted by a arrested respiration, the heart continusingle kind of gland, as in the serpents ing to beat for some minutes after. and batrachains (toads, frogs, etc.), Autopsy shows that the blood is black contains several active substances, and coagulates rapidly. The side of This is why I think the physiological the inoculation shows a yellowish tint, analysis of the poison of the hymenop- due to the beginnings of mortification. tera would afford, as in the study of In this method, which consists in and interesting material.

Mons. Dufour.

the bird to be stung in the pectoral re- of the poison as follows: gion by two or three bees, we see with- The bees are rendered anesthetic by

who have studied the poison of on its feet; if it tries to fly, immethe bees, considered it as a liquid of diately falls back exhausted. The parelatively simple composition. It is the ralysis increases and the bird in its atsame as P. Bert and Cloez finds in the tempt to fly is no longer able to rise poison of the Xylocopa bee (Xylocopa from the ground; its eyes make incoviolacea) (European, Translator) an ordinate movements; it is taken with a organic base which is precipitated by general trembling, which increases from ammonia and which is reduced by time to time. It is a kind of a "dance de Sainte Sui" (Saint Vitas" Dr. Langer (in 1898, Translator) with dance), in which the muscles of the mellifica) arrives at the same conclusion: stantly stimulated; the respiration beacids and precipitated by ammonia. beak in order to inspire the air which Such a very simply composed poison, seems to fail it. Nevertheless the animyriapoda, thousand legs, etc.-Note and defends itself with bill and claw; by translator), which is secreted by towards the end the agitation is interfor bees, when two distinct glands con-lence, the paralysis increases and death

the poison of the serpents, some new making the sting directly by the hymenoptera, the experiment permits obser-The bees which served my experi- vation of symptoms produced by the ments were furnished me by the Bio- poison, such as present themselves in logical Laboratory directed by M. Bon- nature. It does not, however, allow nier, and were forwarded me in excel- for complete physiological analysis, belent condition from Fontainbleau by cause the method does not permit the measurement of the dose, nor variation The sparrow is very reactive, physio- of experimental conditions. This end logically to bee-poison. If we allow we must reach by preparing a solution

in five minutes, symptoms of intoxica- chloroform. When they have suction. At first there is a general and cumbed, we generally see the point of poison apparatus intact.

The reservoir of the acid gland apfuses lending the water a milkish tinge. the same result as the sting of the bee.

It is at first a local action, which becomes rapidly apparent if the injection has been made in the foot. The memappear and remain for several hours. the poisons of the urine. Finally, but slowly, we observe the

persist.

manifest themselves, but a little attenuated and no longer hasten death. If the poison becomes completely inactive. by direct experiment. Allowed to stand and age in contact with the air, the solution loses its convulsive properties, but still causes a slight local action (inflamation), somno- only bee journal; but no apiarist can lence and troubled respiration. Finally justly claim to be well informed who if we filter the solution of poison fails to read it regularly.

the sting project from the end of the (through a Berkfield bourgie with thin abdomen; with a pair pincers we grasp walls), all the stupefying liquid passes the sting, pull gently and draw out the through, but still relatively small: in quantity.

From the preceding experiments it pears distended by a clear liquid. We results that the poison of bees, as it is plunge the apparatus thus isolated into injected by the insect, contains three distilled water, where the poison dif- distinct active principles: First, an inflaming substance which decomposes at The solution is neutral to litmus. In- 100 ° C.; second, a convulsion-producing oculated into a sparrow, it produces poison, which does not resist prolonged boiling; third, a stupefying poison, which is not wholly decomposed at 150 ° C.

In the venomous secretions of an inber, becoming inactive, hangs inertly sect, the existence of two poisons of and drags on the ground; the reflex absolute contrary effects is a new fact digital is paralyzed and the bird has of interest to compare with the obsergreat difficulty in keeping its perch. vations of M Bouchard, demonstrated The convulsive phenomena presently for the first time in his researches on

One question still remains to solve. somnolence approach; then follow the The vemon as it leaves the sting is a stupor and the troubled respiration, mixture of two liquids secreted by two which are the immediate cause of death. different glands; it remains to be dis-These three phases of the poisoning covered whether the poisons are seare produced by distinct poisons. This creted by two different glands or we are able to demonstrate indirectly whether, as Caslet thought, they reby modifying the venom responsible for sulted from a chemical reaction, by the each phase of the symptoms. When mixing of the two liquids. The experithe symptoms of one of these poisons ments are proof. We extract the liare suppressed then the other symptoms guid contained in the acid glands reservoir; we dry it, and we inoculate a spar-Heated to a temperature of 100° C. row. The results are demonstrative. for fifteen minutes, the solution of the The bird succumbs with symptoms depoison loses its local action. Concern-termined by the stupefying poison; ing the general phenomena, they still with the other poison the action is very energetic.

It is therefore very evident that the the heating at 100° C. lasts half an stupefying poison and the inflaming hour, the venom loses its convulsive substance are secreted by the acid properties, but retains to some degree gland. Concerning the convulsive poiits ability to stupefy. Kept in a closed son, it certainly comes from the alkatube for fifteen minutes at 150° C., line gland; but this remains to be proven

February 14, 1906.

THE AMERICAN BEE-KEEPER is not the

### THE AMERICAN BEE-KEEPER WOOD'S BEE DISEASE.

#### A New Enemy Develops in New England.

THE FOLLOWING is from the ad- out removing the cover. This seems to Paige of the Massachusetts Agricultural of the disease. college, before the Worcester County AMERICAN BEE-KEEPER? -A. C. M.

SYMPTOMS OF A DISEASE FIRST RECOG-NIZED IN THE APIARY OF JAS. F. WOOD, NORTH DANA, MASS. JULY, 1901.

dead larvae to become viscid.

sence of any promininent or striking mer. advanced stages of development its and cultural characteristics. foul smell that might be detected with- tion relative to the disease and was

dress delivered by Dr. James B. have been the case with this outbreak

It was not known that a trouble ex-Bee-keepers Association, Feb. 10, 1906. isted among bees in this particular sec-We understand that a scientific study tion until attention was called to it by of the disease and its treatment will be Mr. Wood, and this notwithstanding the continued at the college and shall en- fact that it must have been spreading deavor to keep our readers posted for several years before it was recog-Until scientists give the nized, having covered in that time an disease a name will it not be well to area twenty-five miles in length by call it "Wood's Bee Disease," in honor several miles in width, destroying many of the discoverer, whose untimely death colonies, many of which were kept in we chronicle in this number of the moveable-frame hives and subject to occasional handling. The attack of the disease is so insiduous, its development so slow that under favorable conditions as plentiful honey flow, fine weather, etc, that the swarms may survive the attack sufficiently so that it may go into winter quarters in an The larvae when about half-grown apparantly prosperous condition, but turn from a normal pearly-white color owing to its depletion, absence of young to a greasy-yellow shade. Soon after bees, soon succumbs to the attack. they die and lose their shape. At about This loss has in many instances during this time the bees remove most of those the past two or three winters, which dead. As the disease develops and the have been so severe, been thought to colony weakens many larvae are left in be due to the effect of cold, loss of the comb. These later turn black, dry queens, wax worms, etc. The result down and adhere as a dry, scale-like of an outbreak of the disease in a yard mass to the side and bottom of the cell. has been the loss of every colony in it. There is little or no tendency for the In some cases a colony or two have survived the attack for one year and The slow progress of the disease, the successfully gone through one winter, removal of the dead larvae and the ab- only to die the following spring or sum-

symptoms makes the disease difficult of As bacterological study of material diagnosis in its early stages, 'even by obtained from dead larvae resulted in the practical apiarist who is continually the isolation of two organisms differing working among his bees. Even in the quite materially in both morphologic existence would not in hardly an in-resembled the Bacillus alvei of Cheshire, stance be detected among farmers' bees or the Bacillus milli or Bacillus thoracis owing to the absence of such symptoms of Howard. It was not proven that as dead larvae in front of the hive or a either organism studied bore a causathought that their presence was incidental.

Close observation showed that the disease was usually spread in the apiary by flying bees from a diseased colony, entering the wrong hive. Its introduction into the yard was found to be due to the robbing out of hives that had harbored diseased bees the summer previous and which had been standing open in the yard. This source of infection was traced in quite an unmistakable manner in two different instances.

In the treatment of the diseased colonies a variety of methods were tried, such as spraying with vinegar, Beta napthol, feeding antiseptic syrup solutions, disinfection of hives, etc. The best results were obtained by the use of the McEvoy method employed with preventative measures, consisting of removal of healthy colonies to new stands allowing diseased ones to remain on old stands in yard. Separation of healthy colonies in new position was found advantageous to retard spread of disease provided it appeared in any hives thought to be healthy at the time of separation.

The disease is known to have existed among bees in ten or eleven towns in the Connecticut and Swift river valleys during the past five or six years.

To prevent its diminuation those keeping bees should take particular pains to close hives in which colonies have perished during the winter. This should be done in early spring before the weather has become sufficiently warm to induce bees to fly. As soon as possible the wax should be rendered by use of steam or hot water, never with solar extractor. Hives, covers, frames, etc. should be thoroughly disinfected by boiling or with disinfectant solutions.

Only by co-operation can the beekeepers hope to stamp out this great menace to this industry.

The "rule or ruin" bump seems well developed in some people.

#### YOUNG QUEENS IMPORTANT.

#### F. Greiner.

OUR FAILURES often impress themselves upon our minds more vividly than our successes and so I will mention the ill success I have had the past season with some old queens which I had in my yard when 1905 started in.

For several reasons, not necessary to detail here, I had failed to replace these the fall before or even as soon in the spring as queens could conveniently be reared. Some of these went right on and did a good business.

One black colony in an outvard came through in rather poor condition, but with a large amount of honey, which was partly removed. I rather expected this colony would build up during the summer and give some surplus during the fall honey-flow; but it did not do so. At the best there were only four combs of brood. Futher the queen could not go. According to former experiences I expected that the bees of that colony would go to work and rear another queen. I was watching for this occurrence; but that did not happen. The bees did not seem to have "sense" enough to apply the only remedy at their command. My interest was aroused and to give them further opportunities I placed a set of brood combs full of brood on top of their hive, thus giving them a lift. This was in the late summer, near the close of the white honey season. By fall I had a fair colony of bees, numerically, but with a small amount of brood. I took them into the winter, but failed to obtain any surplus. I shall now with anxiety watch the development if they survive. Of course it is a money losing game to allow a colony to thus fool away their time, but we may learn a lesson from it.

The other colony, I have in mind, was a fine Italian, while the previous one was a "native." The queen was fine and had been clipped, the same as the

black. The colony built up in good shape and was among the best when the honey season arrived. I made a brushed or shook swarm of it and disposed of the brood combs. Everything seemed to go lovely and ere long I raised the first super giving the second and empty one under the first. I had taken particular notice of the queen when making the brushed swarm and had treated her very carefully; I knew she was all right. Still the supers were not finished up as on other hives similarly treated. I became impatient. Finally, at the very close of the season, I made an examination. I found the old queen apparently all right but only scattering brood through the hives and that very largely drone brood. In this case, the same as in the other, the bees had shown very poor "judgement" for they had made no provisions at all to rear another queen.

As to surplus honey, the outcome was anything but satisfactory. There was not one perfectly filled section. The first case given contained about half as much honey by weight as is usually found in a well filled one. Each section was "pinched down" and not marketable nor in any shape to be used as a "go back," for nearly all cells were sealed. The second case contained no honey whatever; the starters were drawn out some, and a little more new comb added. That was all.

Colonies with old queens which are allowed to swarm according to their own will, frequently supersede their queens during the swarming period. but when we take matters into our own hands it will be well for us to also see to it that old queens are replaced before they begin to fail.

Naples, N. Y., Feb. 28 1906.

#### BEE SUPPLIES IN BOSTON.

H. H. Jepson, 182 Friend street, Boston. Successor to F. H. Farmer. Bees, Queens and Supplies.

#### WHY MISREPRESENT?

W. J. Davis, 1st.

SEE PAGE fifty-eight, AMERICAN BEE-KEEPER for March. Professor Wiley stated some twenty-five years ago that artificial combs were now made (of paraffine), filled with syrup (glucose) and sealed so perfectly that they could not be distinguished from the work of the honeybee. He has since admitted that it was only a scientific pleasantry, like the making of artificial hens' eggs that would hatch; a statement so absurd that no one of sense would believe it for a moment. Prof. Wiley no doubt enjoyed the notoriety of public cudgeling by the different bee journals, until he admitted that it was only a "scientific pleasantry"-not claiming it to be a possible production. But the outsiders believed it. I have had men tell me it was a fact, for they had seen it.

It is a hard matter to convince a man that a thing does not exist when he has seen it with his own eyes. I can say that I have never seen such comb honey, and will venture the assertion that A. C. M. never saw such a section. The outsiders that call us bee-keepers a lot of "hot-headed bigots" are people who possibly never saw the inside of a bee hive nor even a honeybee, unless it was at a safe distance.

This Wiley story has gone the rounds of the city dailies about once a year for the past twenty-five years. The editors, though undoubtedly able men and understanding current events even all over this globe, yet know practically nothing of honey or many other products of the country that enter into consumption in city life. Yet the writer of "Why Misrepresent?" says it can be done. If it can, please tell us how we may cap sections which are filled with natural combs and nearly full of honey. and some which are partly sealed yet are not marketable?

For more than twenty years a stand-

that is more than the average bee- circles above. keeper makes from a whole apiary in a year, and can't you make just one may not be more than three or four says it can be made, but it "don't until they number perhaps eighteen or highly prized sometimes by the Amersense."

Youngsville, Pa.

#### THE NUPTIAL FLIGHT.

#### E. L. Pratt.

HAVE ON several occasions observed the mating of queen bees and in a few instances have seen the act of actual copulation and I wish to record the facts as witnessed during the season of 1905. My observations were made on dull days, when the sun was partially veiled, for on such a day one can look directly into the sky without being dazzled by the sun.

It is my belief that young queens never fly as high as we have been led to believe by past writings on the subject; nor do I believe that it is natural for them to go very far from the hives. From my observations I judge that a mating zone grows smaller and smaller by the increase of the number of drones in a given location.

In my mating yards during the height of the season there are at least ten thousand drones, and if half this number should be on the wing I doubt very much if any young queen could possibly get very far before being caught.

pursuit of a queen, but do not fly stead- on mating bent. These three queens

ing offer of \$1,000, made by a reliable ily as do geese; they slow when the firm for one section of so-called arti- queen slows and speed when the queen ficial comb honey has not had an appli- speeds. This gives a sort of jerking mocant. Why, you "hot-headed bigots," tion to the entire flock as it swiftly

When the flock first forms there section? Yet the writer referred to drones but others soon join in the chase. pay," and there you have struck the more. All the while the rear drones "American anatomy" that always hears, are grappling the drones in advance "the commercial sense." But, Brother and come tumbling down together. Miller, there is another sense that is These fellows, however, soon join in the chase again. I have seen the drones ican people; it is called "common grapple each other thus until only three perhaps remain close to the queen. She may then dodge and thus slip the few left to reappear at another point in the air with another flock of suitors. The flight is wondrous swift, and one must be vigilant to keep track of it all. If you happen to be in a mating vard on a dull day when young queens are due to fly, look up and you will certainly see what what I have outlined above.

> On one occasion the queen and drone fell at my very feet and I watched the queen kick herself away from the drone. That drone did not die instantly nor did he explode as the text-books have said; he lived, but of course he was injured. He could fly in the grass from blade to blade.

> Drones are frightfully rough when in flight with a queen. They fly at each other and at the queen as though to tear from limb from limb. The queens are sometimes injured in this tussle in the air. Once an injured queen fell upon a bush near me. The drones came with her her down on that bush, some staying obout all that afternoon expecting the queen to fly off again; she did not fly and after a while the drones went home disappointed.

The most impressive mating scene I I will try to picture the action of the ever witnessed was late in September. drones when young queens, due to mate, The day was dull but quite warm. are in the air: They form in a fllock When I stepped into the the yard there (somewhat like geese) when in full were at least three queens in the air, were forming into flocks again. This death. scene lasted fully twenty minutes until I at last saw a queen and drone come down in tumbling motion and I was certain that I had seen all there was to be seen. I rushed up and watched the queen kick herself away.

I captured the drone and caged him. he lived over five hours and it is my belief that he would have lived much longer if proper food could have been supplied.

In a future letter I will try to tell fully of the action of the drone parts, if I can manage suitable drawings for purpose of illustration.

Swarthmore, Pa., October 15, 1905.

#### DEATH OF JAMES FITTS WOOD.

Mr. James Fitts Wood, aged 44, died at his home in Athol, Mass., Feb. 15, 1905.

'Mr. Wood was an acknowledged authority on the subject of bees and other insects, and was a lecturer and demonstrator in this line at the Mass- careful observer he was very successachusetts Agricultural college.

employment with the father of W. W. was associated with Mr. Langstroth.

Upon his first visit to Mr. Cary's leasing introducing cage. place he walked from his home to prenticeship of several years with Mr. eastern section of the country. Langstroth and the elder Cary and his though not a prolific writer he oc-

gathered together in that yard more son he secured a position as superindrones than I had ever before seen in tendent of a large apiary in New York flight in one spot before. The flocks where he perfected his knowledge of whizzed by my head repeatedly and I the practical workings of the apiary as was kept busy keeping track of it all. conducted on a large scale for the pro-Several times I rushed to a knot of duction of honey. Equipped with a drones in the grass with the expectathorough knowledge of the Caryapiary, tion of finding a mated queen; but lo he started in this line for himself after and behold, only a lot of angry drones completing his work in New York. tussling and mauling each other. They He was engaged in this line of work were soon off, however, and, in the air, for several years up to the time of his

Being by nature a close student and



JAMES FITTS WOOD.

ful. He succeded in developing a strain While yet a boy he became inter- of Italians remarkable for their gentleested in the subject of bee-keeping and ness, good working qualities and beauty. to prepar for his life work secured While thus engaged he devised several methods and invented and improved Cary of Colrain, Mass., who at the time several appliances useful in queen rearing, notably the automatic queen re-

Until his health became somewhat Colrain, a distance of more than twenty- impared he was an attendent at the five miles. After having served an ap- bee-keepers' conventions held in the casionally contributed articles to the benefit of the results of his labors.

a careful reader of all the journals and thoroughly conversant with the new discoveries and progress made in the subject of apiculture.

he was familiar with the names and for \$400. work of those of his own time and the stock of knowledge of this importlow full credit for an opinion relative be appealed. to the value of a particular method, or advantage claimed for a new invention for use in the apiry. This he accepted until its correctness or worthlessness had been demonstrated by practical experimentation in his own hands.

> JAMES B. PAIGE, Amherst, Mass.

#### CANADIAN BEE-KEEPER SUED FOR DAMAGES.

The following clipping is from a recent number of an Ontario newspaper:

A great deal of interest was taken in the Lucas-Pettit case, which was tried at the assizes at Simcoe yesterday. The action was brought by Freeman Lucas, a farmer of Nixon, hear Simcoe, against Morley Pettit, a bee-keeper, for \$2000 damages for the loss of a span of horses and for injuries to the plaintiff by a swarm of bees. Last summer the plaintiff's horses were stung to death one day while the farmer was engaged in cutting oats. The bees swooped down on the horses in such force that they put the the animals out of business in a few minutes, and killed them in about an hour. Mr. Lucas fled for his life to a mud puddle near by, and it was only by getting right into the mud hole that he escaped meeting the same fate Per dozen, \$8. J. W. K. Shaw & Co., as the horses.

The plaintiff alleged that the bees journals giving all in bee-keeping the which did the damage belonged to the defendant, who had 160 hives of honey To the end he was a close student of bees on a property across the road from the subject of his life's work. He was the scene of the trouble. The defendant denied liability, and he was backed up by bee-keepers in Canada and the United States. It is said the National Bee-Keepers' association of the United Through careful study of books and States was behind the defence. The journals, or by personal acquaintance jury gave a verdict for Plaintiff Lucas

W. S. McBrayne, this city, was for earlier years who had contributed to the plaintiff. George S. Lynch-Staunton, K. C., and H. P. Innes, Simcoe, ant industry. It was his nature to al- were for the defendant. The case will

#### THE LEAGUE NOT GUILTY

Marengo, Ill., March 7, 1906. Mr. Editor:

On page 58 of THE AMERICAN BEE-KEEPER occurs the following sentence: "The late League issued a 24 page pamphlet on the so called 'Wiley Honey Lie.'" Please permit me space to pronounce that statement utterly untrue. The League issued no pamphlet of any kind. So far as I know, no member of the League knew of the existence of the pamphlet in question until it was in print. Permission was then asked to put upon the said pamphlet the imprint of the Honey Producers' League; but no such permission was granted. If any later issue has upon it the imprint of the League, there is sometimg in the nature of forgery in the case.

C. C. MILLER.

Do not judge a trade journal by its subscription price. Judge by its contents.

#### DO YOU WANT QUEENS?

The best queens? By return mail? We can fill your order from our fine strain of three-band Italians. Healthy and prolific, but the best of workers. Try them. Tested, \$1; untested, 75c. Loreauville, La.

#### THE SUGAR FEEDING GAME.

#### Mr. Chantry Stands Pat With a Good Hand.

#### Thos. Chantry.

the January number Mr. J. E. Hand proceeds to make wrong calculations. He objects to my caging the queen.

The loss in weight of syrup and honey fed would have been still greater had the queen been free; and who would want a swarm in October to have to feed over winter at an extra expense? And further how would a queen keep up the strength of a colony, starting with no brood and the experiment lasting four weeks? It would take three weeks for the first bee to hatch. We did not want the bees to spend any of their energy or time or feed in rearing brood, which would be a useless expense afterward. We buy swarms in June and July for one dollar here, and flow came. in August and September for fifty cents, and later no one wants them as a my sentiments exactly. gift.

One man last fall offered me fourteen colonies if I would take them out of the hives and leave him the hives, honey and wax. I'd rather buy next spring for \$4.00 each in good hives, ready for business; and he sulphured them. So there goes your two dollars-if there would be a possibility of getting it. Therefore I do not see yet that I made a great blunder in caging my queen.

Further, Mr. Hand counts our honey at 15 cents, which is not so. We sold

actual cash cost, \$12.18. 94 pounds of keeping God's most wonderful insects

honey, at 12 cents, \$11.28; 20 pounds in brood nest, a dead waste, for that colony was no better off next season than any other. Actually, to us here, the experiment cost us 90 cents cash, besides a day constructing a suitable FROM OUR experiment described in feeder, and the daily attentions in mixing feed and giving, and the procuring from a distance of the bees after hunting out their queen at the different trips, and the weighing and adjusting supers, crating honey, etc., etc.

Now, Mr. Hand, come out and get my \$100.00. It is ready for you as per my offer in the January BEE-KEEPER. You say you have seen thousands of pounds of sugar honey, but you did not say you produced it. I saw a fellow who said he fed his bees one hundred pounds of sugar made into syrup, and got two hundred pounds of honey, which was probably true; but in fact his bees used the sugar for feed and brood, which made them strong so they stored two hundred pounds of honey when a

The latter half of your article is just

Sioux City, Ia., February 10, 1906.

#### **CINCINNATI NEWS**

#### Fred W. Muth.

Cincinnati, March 3, 1906.

Rev. E. A. Wagner, of St. Paul's English Lutheran church, was quite a bee enthusiast when a boy; he took up the work of ministering into his people and has built up a strong congregation. In the past year he has again taken to apiculture and has one hive located in for 12 cents, and lots of Wisconsin the belfry of the church, two in the honey was delivered for 10½ to 11 cents. yard of the parsonage, only to be re-His sugar price is also wrong. We moved into the belfry early in the paid \$6.25 per 100 pounds for it. Now spring. He also has an out apiary of figure it as it was: 62½ pounds of honey three in the suburbs of Dayton, Ohio. at 7 cents per pound, \$4.37\frac{1}{2}. 125 pounds Dr. Wagner promises us much in seof sugar at \$6.25 per 100 pounds, \$7.811; curing others to join in the work of the four swarms of bees, nothing only time Lord, also to bring others in close touch to go 31 miles and get them, three trips; with the real merits and advantages of

knowing that his pastor was and would shade upon the tender grass beneath. be interested.

informs us that on February 12th, the snow was four inches deep and that out of thirty-five hives in his apiary thirtyfive were alive and flying. Although bee-keeping with Mr. Childlaw is only a side issue, as it were, he is one of progressive bee-keepers who knows how to make it pay, and last season cleared \$250.00 from thirty five colonies. This, we think, is very good, considering the poor season in this part of the country. He reports that the clover never looked better than now, and is sure he will make quite a nice profit the coming season with his bees.

Mr. C. E. Woods, who resided in our city until last spring, when he purchased a nice little home and a few acres of ground in Latonia, Ky., a pretty little

-the honeybee. We ultimately shall villa some seven miles distant from look to Dr. Wagner as a leader, and Cincinnati. Behold, he too has the bee already he had planned to secure a fever, and a bad case at that. Mr. swarm of bees located in a tree in one Woods has the making of a bee man, of the golf grounds situated in the in the fullest sense of the word. We west end of the city. This information will prescribe for your bee fever, Bro. was gleaned through one of the Sunday Woods, in the spring-time when the school boys, who became interested by trees begin to blossom, and cast their

Mr. Samuel Fardo of Butler, Ky., Mr. Ed Childlaw, of Cleves, Ohio, called upon us Christmas Day. He is a successful huckster and bee-keeper, and realizes the advantage of raising fine comb honey, since he handles all kinds raised by the farmer bee-keeper, and sells direct to the grocery customers.

> January 21st was an ideal spring day; never saw the bees fly better in June. Every living soul, that could, was out enjoying the beautiful day. The writer examined twelve colonies and found them in excellent shape, some with quite a nice lot of brood. The following day four bee men called at our store giving us nice orders for bee hives and supplies. My, how anxious the beemen are awaiting the first signs of spring, for they know they will reap a harvest this year.

(How do they know ?-EDITOR.)



#### GERMANY.

The German bee-keepers are obliged to chose between a great many different styled bee hives. Shilling enumerates twenty-eight, and says the list is much larger.-Illustr. Bztg.

According to the Schenkenberger, who has a house apiary inserting two

queens out of ten are able to safely return to their hive when out on a mating trip. The entrances of these hives are close, one to another, and this is the reason of S.' sad experience.

writer describes his The same nucleus-hives as a sort of "long-ideal" experience of nine or ten small frames, divisible by close-fitting division in use containing 38 colonies, only two boards, thus forming three secarate

compartments each having a small will continue to "go back" till nature four respective entrances facing in four different directions. This arrangement has given good satisfaction.)—Bralz. Bztg.

The German Central-Verein of Bee-Keepers has at present 50,000 members.

Three good rules for increasing the consumption of honey are laid down by Schneider in Preuss. Bztg. viz 1, "Offer for sale only pure, neat and faultless honey; 2, Employ business methods 3, Inform the general public through the press of the value of honey as a food,"

Gerstung says in Dei Biene that in 1873 only 12 per cent of all the bees in Germany were in frame hives. In 1900 as many as 44 per cent were in frame hives.

Stolle reports a case of impure combfoundation as follows: I bought of a so called reliable firm 12 pounds of and slid down on the wires causing great loss and confusion in the hives. The frames were largely built out with drone comb and were no good. It was the ruination of my bees. - Schlesurg H. Bztg.

#### CLAIMS QUESTIONABLE HONOR.

Freudenstein, editor of Neue Bztg. has been advocating the feeding of sugar for a number of years. In the last issue of his paper he says, that he does not claim to be the originator of sugar feeding, not even for a winter food, but claims originality of having discovered, that dysentery can be prevented and cured by substituting sugar for honey. He says that during his 19 space" between the upper and lower cleansing flights did not cure the experience of 50 years of practical beedesease. A colony which is deseaed keeping.-Deutshe Imeker.

round entrance, and facing different furnishes better food, or the bee-keeper parts of the compass. (The gleaner of does it. He claims originality for makthis has for some time used a similar ing the assertion that a swarm of bees nucleus hive holding four colonies, the may be deprived of all its combs, etc., placed on sheets of foundation and fed on sugar syrup and have them come out in the spring in No. 1 shape. Even without foundation the object may be accomplished and the result will be all worker combs at that; that bees need no pollen for safe wintering.

With a good supply of sugar syrup stored in combs with no pollen present bees need no cleansing flights during the winter, he says. And more, he would do everything he could to prevent such flights. [It will be remembered by the older readers that James Heddon similar assertions many years ago.]

It'is estimated that a swarm of bees numbering 22500 individual bees can and does carry about or nearly two pounds of honey in their honeysacks. Berlepsch concluded that it repuired 0.0001699042 oz. of honey for each bee each day and according to these figures comb foundation. It was used in well the same swarm ought to be able to wired frames. Every sheet tore off live without other food eight full days, but the fact is that a swarm generally starves in five or six days.-Monats bl Weipple.

#### GOOD FOR GREINER.

An advertisement in Deutsche Bzcht refering to the Carniolan bee says: "The largest honey-yields by proper managment are possible only with the Carniolan bee." With the following slight change of wording the gleaner endorses every word. Read thus: "The largest honey-yield with the Carniolan bees is possible only by proper management!"

Guenther still defends the "no-beeyears of bee-keeping he found that sets of frames. Guenther has had an

#### ROMANIA.

The hive used largely in Romania is similar to the old straw-skep, has the shape of a bell and is made of willow twigs, basket fashion. To give greater warmth and protect against the sun the structure it coated with a mixture of clay. These hives are made very small and it is difficult to obtain any honey from them except by resorting to brimstone. The bees, prehaps on account of the smallness of their hives are given small, seldom weighing over two pounds. A very few of the more enlightened people in Romania have of late taken movable-comb hives of German pattern into use. The main honey season commences about May 15, and lasts a month, usually there is a short flow in August and September. account of the severity of the winters and the poor management of the beekeepers bees are said to winter badly. even strong colonies often suffer greatly. - Seipz. Bztg.

#### ITALY.

#### LUIGI VON SARTORI

tinguished himself in Italy to the ex- progressive work is not a national but tent that Luigi von Sartori has. His an international affair and that he inname is know not alone in Italy but tends to show apiculture of Italy, also in parts of Asia and Africa. He France, etc, but particularly of North was born in Primicro, Tirol, a province America as the influence of modern of Austria on the 24th of April, 1834, American apiculture has long been felt studied German apicultural literature in European lands. It seems Straeuli and adopted the movable comb at an has been encouraged by many beeearly date. In 1856 he had hundreds of keepers of Europe, especially Germany, movable comb-hives in his yards. The to inform the German speaking public Bienen-Vater of Dec. 1905 an Austrian of "what is going on in America." bee-periodical has not only a fine por- This is very flattering to the bee-keepers trate of Prof. Sartori but also a picture of the United States and gives us great of his apiary as it appeared in 1856. In satisfaction, in view of the fact that 1862 he commenced to write for the Yankee bee-keeper has been looked been highly commented on and which brings in the new publication.

brought him many honors. The book is said to be the best and most extensive bee-book written in the Italian language. In 1869 the professor received a call to go to Milan where he established large apiaries from which he sent thousands of Italian queens and swarms of bees to nearly all parts of the world. He constructed a hive which has become very popular in Italy. Many distinguished men, men of no ordinary standing came to him for instructions in apicultural matters. In much to swarming, but the swarms are 1880 the Russian minister, Boutouchin, engaged him to establish a number of modern apiaries in different parts of Russia. He also went to Egypt for similar purposes. The King of Italy, as well as Emperor of Austria, conferred great honors upon Sartori for his meritorious work, the advancement of apiculture. — Condensed from Vater.

#### **SWITZERLAND**

AN INTERNATIONAL BEE JOURNAL.

A new publication of apicultural matters has just come to the desk of the gleaner of this. It is styled "Europian Apiculture" and is edited by A. Straeuli. In his introduction the editor Prehaps no other bee-keeper has dis- says that modern apiculture like other press and in 1880 in connection with down upon by the Germans for many A. von Rauschenfels he wrote an ex- years. American Queen-rearing and tensive book on bee-culture which has Baby-nuclei is the first topic the editor

#### THE

#### AMERICAN BEE-KEEPER

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We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wranper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or requesting the paper discontinued at expiration of time paid for, as may be desired.

A critical Massachusetts subscriber, who takes and reads all the bee journals, and who speaks commendingly of THE pulverulent substances, such as yellow is more crudity in the articles found in spar, clap, litharge, etc., are also dethe bee journals than in any other mag- tected by melting, whereby they separazine that I have ever read." Verily, ate. Stearin, resin, and vegetable the sparkling of some of the literary waxes increase the specific gravity.

gems (?) in beedom's periodical array. is less brilliant to others than to those who do the polishing and are dazzled by the splendor of their own handiwork.

In an address before the National Bee-Keepers' Association, Mr. Hershiser claims the discovery of the principle of alternate pressing and soaking of slumgum under boiling water as the true one for the extraction of wax. It seem to us that we have somewhere heard that the associate editor discovered that and has a patent on a wax extracting device working on that principle.

Grant Stanley says "the banking trust shuts out Postal Savings Banks." This is news to the writer who has been connected with banks for over twenty-five vears. Better stick to bees Brother Stanley.

In using chaff hives Mr. Stanley says he was greatly annoyed by brace and burr combs on top of the top-bars, but since he discarded chaff hives. Was it simple coincidence, or what? Tell us?

The Worcester County Bee-Keepers' Association will hold its next meeting at Horticultural Hall, Worcester, Mass. April 14, 1906.

#### Wax Adulteration.

The following quotations may be of value to bee-keepers generally:

"The most common adulterations are as follows: Admixture of water to increase weight, which is readily recognized by the rough fracture and by slowly heating to the melting point and cooling, whereby the water separates, the quantity being determined by weighing the cooled wax. Additions of BEE-KEEPER in general, writes: "There ochre, brick meal, pea flour, heavy

"Pure vellow wax shows the same phenomenon in a fluid of 0.955 to 0.965 specific gravity prepared from 1 part of alcohol and 3 parts of water. Adulterations of wax with the above-mentioned substances would cause the wax to sink, while sophistication with paraffine, ceresin, ozokerite, etc., would make it float upon the surface. Generally speaking, the principal adulterations of wax are with yellow ceresin for yellow wax and white ceresin, for white wax. Paraffine, respectively ceresin, etc., is recognized by heating a sample of the suspected wax with fuming sulphuric acid in a porcelain dish. Pure wax is thereby entirely decomposed and converted into a black jell-like mass, from which the paraffine is separated in an unchanged form after cooling. Tallow -By pouring spirits of sal ammoniac over scraped wax in a test tube, and heating, the fluid does not become turbid, as is the case in the presence of tallow. Stearic acid is detected by dissolving a small quantity of wax in ten times the quantity of chloroform and adding lime-water. Pure wax remains dissolved, while in the presence of stearin a granular precipitate of stearate of lime (lime soap) is formed. Resin on the committee having the honor to -Boil the wax with concentrated nitric so largely promote modern bee-keeping acid; and in the presence of resin the throughout Great Britian through its fluid acquires a reddish color. By add- successful shows, instructive literature ing water to the fluid after cooling and and helpful organizations, especial atfreeing it from wax, it becomes turbid tention being given to cottagers. As a and the resin separates as a yellow, memento for his valuable service in the flaky precipitate, which dissolves with interests of the British Bee-Keepers' a reddish brown color in caustic am- Association the bee-keepers of England equal parts of borax and wax with fif- address and sent it, with a purse of teen to twenty times the quantity of some size, to Mr. Hooker, at his Philawater; with pure, yellow wax the milky delphia home. During his visit here last turbid mixture separates gradually into year Mr. Thos. W. Cowan appended his a clear yellowish fluid and with pure signature to the parchment, thus comwhite wax into a clear fluid, with the pleting the paper which now includes wax in both cases floating on top. In the names of many of the best-known the presence of Japanese wax the whole bee-keepers of England. remains milky, and, according to the It was Mr. Hooker who suggested the quantity of adulteration, thickly fluid first movable dummy. He was awarded or jelly-like and rigid."

#### Death of Mr. John M. Hooker.

Mr. John M. Hooker, for many years prominently connected with the British Bee-Keepers' Association, and who has been an occasional contributor to the AMERICAN BEE-KEEPER, died at Philadelphia, Jan. 31, 1906. Mr. Hooker took a lively interest in apiarian matters, and was a warm personal friend of Mr. E. L. Pratt, of Swarthmore, as well as a friend of the AMERICAN BEE-KEEPER.

John Marshall Hooker was born in Kent, England, April 26, 1829. loved country life and his time was largely spent in the country about London where he was for many years engaged in the profession of architect and builder. Many a handsome suburban estate was planned and entirely laid out at his direction.

Mr. Hooker's first lessons in beekeeping were from his father who was a clever scientific man and an advanced bee-keeper. The Hooker estate consisted of considerable valuable landed property in Kent and Sussex. Bees were always kept on the place and considerable honey taken yearly to market.

From 1874 to 1889 Mr. Hooker served Japanese Wax-Boil about recently framed a handsome illuminated

medals for the best hive on the tiering

plan. Took many a prize for the largest yield from a single colony. Invented an uncapping device. His mechanical knowledge enabled him to make many improvements in appliances of all kinds -the Hooker-Alexander hive was at one time considered the best in England. In 1888 Mr. Hooker published a book called "Hooker's Guide to Successful Bee-Keeping," which was up-to-date in every detail.

After the death of his wife Mr. Hooker came to Philadelphia to reside with his son, Dr. Samuel C. Hooker, a chemist of international repute. From Philadelphia he made extended trips West and South and called upon all the prominent American bee-keepers within reach.

He became a member of the Philadelphia Bee-Keepers' Association, and was active in its work up to the time of his death. He has written many columns for nearly all the bee journals, in which writings he showed himself to be keen and alive to the improved methods of this later day.

He was a gentleman of refinement and good taste and had a most affable disposition which endeared him to all who knew him. His loss will be keenly felt both in England and America.

In the Rural Bee-Keeper for February Grant Stanley says of locations for an apiary that a western slope is poorest of all. Perhaps in his part of Pennsylvania, but not always so.

used to be "all the go" in Germany. Of late the single-walled hive is coming to the front.

Two German bee-periodicals have decided to discontinue: The Imkerschule, of Weigandt, and Bienenfreund, of Kvanchev.

A "bee-line" is often a very crooked affair, but is always the line of least resistance, says Allen Latham; and Allen is right,

#### Apiary Notes of Unknown Europe.

#### BY FELIX J. KOCH.

Fond as are the people of central Europe of honey, along the East Adriatic it is seldom, if ever, encountered.

At Sissek, Croatia, under the pent roof of the houses, the hives are always seen, house architecture being modeled to accommodate them.

On the way from Sarajevo, in Bosnia, toward Budapest, in the great rain belt of Europe, bee-hives are innumerable, and in constant sight of passengers on the trains.

Honey constitutes one of the important items of storage in the great warehouses on the outskirts of the Wagvar capital.

To the north among the Tatra, at Poprad, honey is gathered in large quantities for export.

At the neighboring Ice-Caverns the familiar rounded German hives are employed, the people here being of Saxon decent, though surrounded by an ocean of Wagvars.

At Tarta-fured, in the Carpathians, the fences are built of stone pillars joined by boards, on the top of which there rests an oblong roof, sheltering the bee-hives.

One of the curiosities of the royal chateau at Terpsichdor, in Servia, is the wax flowers, kept in slanting cases. The death-mask of one of the murdered The double-walled, well packed hive Serbkings, likewise of wax, is preserved nearby.

> A feature of the annual agricultural exposition at Bucarest, is the exhibition of bee-hives of most approved pattern. Such is the poverty of the Roumanian peasant, however, that he cannot buy if he would.

#### QUALITY QUEENS

Are the best Italians yet. Send for circular. H. H. Jepson, 182 Friend St., Boston, Mass.

#### Different Kinds of Fools.

Cincinnati and San Francisco is the home of a monthly journal bearing the benign title, "The National Humane Educator," a marked copy of which has been sent to us by a New York subscriber. The paper is edited and managed by a bunch of well meaning women, so we shall dwell not upon the ignorance or stupidity of the management, but reproduce the article as an example of some men's foolishness. Some people who constitute the source of the newspapers' supply of raw material are foolish; some are fools and still others are so much so that they are not fittingly described without the use of a qualifying adjective. Ike Hubbard, as may be noted, belongs to the latter class. This is the article:

#### CALLS BEES IDLE

Dedham, Me.-"There are several popular errors about the ways of bees which need rectifying," said Ike Hubbard, a honey hunter. "The average bee, instead of being an example of industry, is about the laziest thing that flies.

"Even in the busy season in midsummer no bee will quit his hive until after the sun is well up and has taken off the heavier part of the dew and as soon as the sun slants toward the hills in the afternoon every bee will come flying home and go to his roost, though darkness is four hours away.

"Then there are few bees that will hunt for honey from flowers so long as they can find corn syrup or brown sugar to steal. This fact is so well known to apiarists that many bee-keepers buy corn syrup at 50 cents a gallon and pass it along to the bees, which resembles honey, and still sells for honey, but is not the genuine product of the hives. When a man can buy syrup for 50 cents a gallon and then sell it back to the trader as honey at \$8 a gallon he can get rich right away, provided he has enough bees.

about bees is the belief that they follow straight lines when carrying home their loads of honey. I assure you that the bee line one reads about in books does not exist.

"When a laden bee is going home with a big load of honey in its stomach and great wads of pollen on its hind legs it takes the easiest course, regardless of any line. In our hilly Maine country no bee will rise in the air to surmount a hill when it can go around the obstruc-

"When a sharp rise lies between my honey box and the bee tree every bee flies away on the arc of a circle, so as to avoid exerting itself by rising. In such cases I place my box on either side of the hill and make my triangulation nearer the apex. If one were to go chasing after a bee that was flying around a hill his calculations might lead him to China.

"The bee-keepers tell us that white clover honey is the best, but I do not agree with them. Domestic honey, such as gathered from white clover, buckwheat and other cultivated plants, is too sweet.

"To my mind wild honey that is stolen from the blossoms of dogwood and basswood and wild thyme and mints and nettles is far better than anything bought in the stores. It has a gamy flavor about it that suggests wild woods and great trees and singing brooks and everything that lives out of doors and away from the contaminating taint of mankind."

Do not judge a trade journal by its subscription price. Judge by its contents.

#### HONEY AND BEESWAX MARKET.

Kansas City, Mo., Dec. 7.—The supply of honey is good. The demand is fair. We quote our market today as follows: Comb, \$3.25 per case. Extracted, 6c and 6½c. C. C. Clemons & Co.

Buffalo, Dec. 6.—The supply of honey is only fair and more needed fancy. We quote our market today as follows:
"The greatest mistake that is made"

Buffalo, Dec. 6.—The supply of honey is only fair and more needed fancy. We quote our market today as follows: Comb, fancy, 12-14, No. 2, 8-10c. Extracted, 6-8c lb. in 5 gallon cans. Beeswax 28-32c. Really

fancy one-lb comb is wanted, but lower grades move slow and have to be cut accordingly.

Batterson & Co.

Boston, March 14.-The demand for comb honey Boston, March 14.—The demand for comp noney continues to be good, with new stock cleaning up rapidly. Fancy white, 16 to 17c: No. 1, 16c, No more No. 2 on hand. There is still a good sized stock of old goods, but it is almost impossible to move it. Extracted from 6 to 8c.

Blake, Scott & Lee Co.

Chicago, March 7.—Choice white comb honey is not plentiful and it sells upon arrival at 15e per pound. Other grade of comb are not in demand and sell at uncertain prices of 10 to 14e per pound. Choice white extracted, 6½ to 7½c; amber grades, 5½ to 6½c. Beeswax, 30e per pound. R. A. Burnett & Co.

New York, Dec. 6-Comb honey-The demand continues to be fair for all grades. Prices practi New 1018, Decenting the same of the same o lb. Extracted noney is in his California, with large supplies. We quote white  $6\frac{1}{2}$  to 7c; light amber, 5c; buckwheat, extracted 5½ to 6c per lb. Beeswax, firm and steady at 2 1 lildreth & Segelken.

Cincinnati, March 9.—The demand for comboney has brightened considerably since we last reported: in all probability, by the close of April, the market will be bare of comb honey. This wil be encouraging to the bee-keeper. Nevertheless, to advance prices is out of the question. We therefore, continue to quote fancy white comboney in 24 section cases at 11 and 15c per pound. The demand for extracted honey does not come up to our expectations. We are selling amber honey at from 5½ to 6½c, according to quality. Fancy white honey in 60 pound cans, at 8c. For choice, bright yellow beeswax we are paying 30c per pound, delivered here.

The Fred W. Muth Co. 51 Walnut street.

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#### Typographical Beauty.

During the past year, Advanced Bee Culture has been re-written, enlarged, and beautifully printed in large, clear type, upon heavy enameled paper.

It is lavishly illustrated with beautiful, half-tone engravings, most of them full page, and it is no exaggeration to say that more perfect, artistic, beekeeping pictures have never before been published.

The book is substantially bound in cloth of a soft grey color, and, from the lower opening in the letter "B" of the title in gold letters on the front cover, depends a green vine of clover. with a bee in gold sipping nectar from one of the dainty, white blossoms,

#### **Diversified Experiences**

More important, however, is the simplicity and freshness, the inspiration and real helpfulness of its contents. It may have an egotistical sound, but I think it is entirely proper to mention the experience of which this book is the result.

For 15 years I was a practical beekeeper, making my living in the apiary producing tons of both comb and extracted honey, rearing and selling thousands of queens, reading all of the bee books and journals, attending nearly all of the conventions and fairs. visiting bee-keepers, etc.

Then I began publishing the Review; still attending fairs and conventions: still visiting bee-keepers more than ever-going from the Atlantic to the Pacific, and from Canada and Minnesota to the Southern States.

In publishing the Review, and reading all the other journals and books, the views and experiences of the best vanced Bee Culture is the cream of all and it gives the reasons.

this experience. After a thorough and careful consideration of the views of the best men, in the light of my own experience as a bee-keeper. I have described, in plain, simple, concise language, what I believe to be the most advanced methods of managing apiary, for profit, from the opening of the season to the end of the year.

It is impossible in the space at command to go into details regarding the subjects treated; but I will very briefly mention about half a dozen, simply as samples.

#### Good Stock

Is second only in importance to a good location, and Advanced Bee Culture points out the characteristics of the different varieties of bees, their adaptability to different locations, and then shows how, having secured the best strain of the most suitable variety, to go on and actually improve this stock.

#### Choice of a Hive

Must come early in every bee-keepers' life, and Advanced Bee Culture shows why a large hive is desirable for some localities and purposes, and a small one for other locations and uses giving reasons why, thus assisting the reader to chose intelligently.

#### Sections

And their adjustment on the hives are often puzzling matters, and Advanced Bee Culture considers the different styles, and sizes of sections, different styles of separators, as well as the different kinds of supers, giving reasons for a choice of each.

#### Comb Foundation

Is often used at a profit, but not always, and Advanced Bee Culture tells when and how to use it at a profit, and and most progressive bee-keepers have when it is more profitable to allow the been constantly before my eyes. Ad- bees to build their own combs unaided,

# Culture

#### Comb Honey

And its production interest the practical bee-keeper more than anything else connected with his business; and there is one chapter in Advanced Bee Culture, that comes in after the discussion of locality, varieties of bees, hives, supers, sections, increase, feeding, comb foundation, etc., in which this subject is taken up from the beginning of the season, and the whole ground gone over briefly, showing the relation of these different features to one another, as they are employed in the production of comb honey.

#### **Extracted Honey**

Production posesses an interest almost equal to that of comb honey production, and Advanced Bee Culture has a chapter telling how to produce a thick, heavy, well-ripened article with the least expenditure of capital and labor, and how to so treat the product as to preserte its firm, a mous aroma.

#### Marketing

Of honey is fully as important as its To raise a good crop is production. one thing; to sell it at a good price is another. To bend every energy to the accomplishment of the former, and then neglect the latter, is a mistake. Whether it is advisable to develop the home-market, and, if so, how it shall be done; whether the honey shall be sent to a distant market, and, if so, when, and which one; whether it shall be peddled, and how-these, and many other points, are considered in Advanced Bee Culture.

#### Foul Brood

ment. With the descriptions, illustrations and instructions given; it seems as though one who had never seen foul brood could detect it and rid an apiary of it without serious loss.

#### Winter-Losses

Are not always the result of the same causes. They may come from starvation; from poor food; from improper preparations; from imperfect protection; from a cold, wet, or, possibly, a poorly ventilated cellar, etc. Successful wintering comes from a proper combination of the different conditions. For clear, concise, comprehensive conclusions upon these all important subjects, read the last few chapters of Advanced Bee Culture.

#### Commercial Bee-Keeping.

But there is not room to touch upon any more points. While every class of bee-keepers will find much, very much, of interest in the book, it is only fair to state that the spirit of commercialism pervades it from cover to cover. leading idea kept in mind is that of keeping bees as a business, and making money out of them, and the bee-keeper who keeps bees with that end in view, simply cannot afford not to read Advanced Bee Culture.

#### The Price

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W.Z.HUTCHINSON.

FLINT, MICHIGAN.

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Gleanings in Bee Culture

Our magnificent Christmas number is acknowledged by all as being the finest bee paper ever printed. Beginning the new year we are making many great improvements. For 1906 Gleanings will excel its 1905 record. A trial subscription of six months for only 25c., or one year for \$1.00.

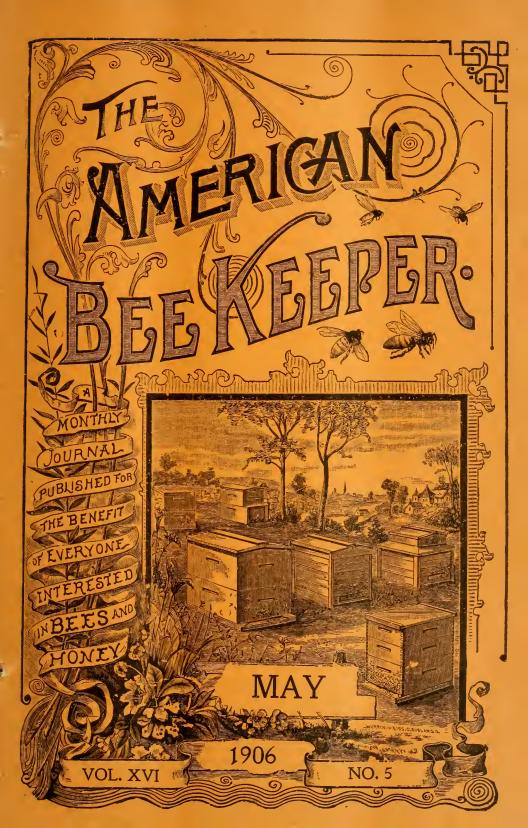
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THE ST. LUCIE COUNTY

## TRIBUNE

Fort Pierce,

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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

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No. 5

## Too Hard for the Editor.

## A List of Questions from a Rattled Tyro of the West Who Loses His Bet of Twenty Cents.

JOHN R. RAGLE.

AS I AM IN a bee-keeping larval ing," said the Indian. "Humph!" commines for \$90 a month. In becoming a but simple Lo, "Dampoor preach!" "beginner" with bees I find that I have ized," but really hybridized with costly novel? Eastern queens, a dozen modern hives, bee books:

gets the profit in bee-keeping? Do you think I will ever make a good business

2—If you had spelled it "catalog" "cattlelog" or "rattlelog" look as well?

preacher how much pay he received. rather do, or go a-fishing? "Sometimes two-bits, sometimes noth- 7-If you were what you have always

state I would like to ask some mented the gruff old general, "D-m questions. I am working in the gold poor pay." "Ugh!" returned the poor

4-Do you think there is any danger spent \$96.50, have six colonies "Italian- of W. Z. Hutchinson ever writing a

5—An old farmer to whom I offered a lot of bee papers and three or four two dollars for the first swarm from his box hive of "blacks," replied that his 1-Where did my money go? Who son Peter had sent back to Ohio for some dog-tail hives and intended to save the swarms himself, this year. Now, who in Ohio is putting out this new kind of hive? Can that farmer ever be eduwhen you went to "spelling bees" would cated into a bee-keeper? What will you not the bright-eyed girl next to you give me for his name, that you may have "spelt you down?" Wouldn't send him your paper? Could he read it?

6-If the thermometer stood at 100 3-Talking about sermons in bee pa- and your bees were demanding attenpers, did you ever hear this story? Gen. tion and you were getting stung at the Scott once asked a bespangled Indian rate of 90 a minute, which would you

wanted to be and never will be, viz: an immensely rich man; would you rather have 25,000 people pay you a dollar apiece or would you rather pay 25,000 people a dollar apiece?

8-The journals, books and "cattlelogs" confuse me greatly, and I would like to know if a-i-r-m 69 metre 1 box frames were in duplex hives and the end bars closed, so as to admit simplicity feeders with plain sections and rail fence separators wired with Hoffman frames: whether you would unite them with shook swarms on contracted honey boards and according to the Alexander method by always setting one hive on top of another and giving them a new one-dollar queen to prevent foul brood, or would you buy an observation hive for \$34 and a Swarthmore outfit for some more dollars and then wait for sundown to beat tin pans with a little tobacco smoke on the Sibbald (or is it the big low) plan?

9—Do "experts" make money keeping bees or by dealing in bee supplies and writing for or printing bee journals? Do they make more money than ginseng men and Belgian hare promoters? Do you think the next twenty years will develop any bee writers beside the same old writers who apparently have been writing in exceedingly bad English and some mixed German, and saying the same old things on the same old topics for the last twenty years? Is it a fact that bee-keepers are a lot of old grannies, holier-than-thou, and too lazy to work except when the bees compel them to do so? Is the whole business chiefly a "sell" for the benefit of those who have things to sell? Will you print of twenty cents that you won't?

If I keep on with bees I may write to you again.

Stent, Calif.

If a farmer had no more faith than some advertisers he would become crazy at seeing good sound corn going into a hog.—Agricultural Advertising.

### NEWSPAPER NONSENSE.

THE FOLLOWING is a sample of the newspaper rot now going the rounds as a result of the recent Caucasian boom instituted by the agricultural department at Washington and boosted along by Gleanings:

A HONEY PRODUCER WHICH WILL NOT STING HUMAN BEING.

The introduction of the Caucasian bee will take away all fear of being stung.

There are gentle things in the caucasus, says Winifred Cook, in Farm and Ranch, even if recent dispatches from that quarter of the world would lead one to believe otherwise. Although neighbor to the Syrian or Holy Land bee, which has a record among bees for temper, and the ancestors of which, according to the writer of the Pentateuch, chased the ancient Hebrews with all the animosity of the Amorites, it is the most amiable of all known bees. While provided with a sting as all bees should be if they are to be worth anything as honey producers, it is almost impossible to make it sting the human being. It is being introduced in the United States.

It was seen by the leading bee-keepers of the country for the first time in September at Jenkinstown, near Philadelphia, at their annual convention. As soon as the supply is large enough it will be possible for the most timorous to take up apiculture without, fear of being stung.

The introduction of the Caucasian bee these questions? Will you accept a bet in this country is one of the beneficent works of the department of agriculture. In 1902 Frank Benton, the apiarist in charge of the government hives at Washington, D. C., bought a number of mated Caucasian queens and brought them to this country. After the manner of queen bees, upon their arrival here they proceeded to lay eggs by the

thousand. In a short time the govern- Fabulous prices were paid for queens. ment had a number of queens and Then a score or more of years later thousands upon thousands of gentle came the Cyprian bee, from Cyprus. honey gatherers. They were studied These bees were hustlers in the matter most carefully. It was found that al- of gathering honey, one colony having most nothing a human being could do a record of one thousand pounds in one would persuade them to attack him. season. But they were veritable devils. Their hive could be shaken. One could Nothing could subdue them. Occasionrun them off the comb with the unprotected hand and they were not disturbed in the least. The only times they showed any irritation were on cool into the cellar and stung every living mornings when the hives were severely jarred or where they had been robbed by other bees. With the exception of found to be equal to any bees in the gathering of honey. It is believed they will revolutionize the honey business. of the race in the apiary died a short so many flies. time ago, and as it is impossible to secure more at present from the Caucasus, where Mr. Benton has gone, owing to the uprising there, no more can be distributed this year.

It will take a long time to eradicate from the American mind the fear of a bee. They came over in a tubby vessel of the seventeenth century. For two centuries they held their own and were distributed from the Atlantic to the Pacific. In comparison with other races now known they have nothing to recommend them. For all this bee was a spiteful creature. It poorly defended its supplies of honey against other bees and was lazy in the matter of gathering honey, anyway.

Just as soon as the supply of nectar began to decrease and a little energy was required in order to find it, the bee gave up the effort. It did not multiply rapidly, so the hives at the beginning of the harvest were likely to be as short handed as a Kansas wheat farm. Therefore, when in 1860 the comparakeeping world became much excited. will soon be announced.

ally they were out hunting for trouble. A story is told of one of these swarms of bees which drove an entire family animal in the neighborhood, including horses, cows and chickens.

These were followed by the large the testy Cyprian bees, they were gray bees from Alpine provinces of Carnolia, Austria. These bees were gentle and also good gatherers of honey.

Last of all has come the Caucasian A number of queens have been distrib- bee, which one can handle practically uted, but the only imported queen bee with no more danger than if they were

## Chaff Packing-Swarming Symptoms.

EXTRACTS FROM a letter of F. Kingsley, Hebron, Neb., writing of chaff packing, says:

"Mice will creep in white small, work up and nest in the chaff and eat bees, wax and honey; and I have found the largest mice I ever saw imprisoned in these hives." Further on, referring to the effect of preparedness on wintering he says: "One spring in May, after a hard winter, I took a colony from a wolfe hole on the prairies where the northwest wind blew freely into it and where the sun could not look in it. The colony hung not over a foot from the mouth of the hole. The bees had their own time and way in preparing for the cold."

As an indication of the swarming fever he notes a listless condition and a different sound from the normal.

The next convention of the National tively gentle, prolific and industrious Bee-Keepers' Association will probably Italian bees were imported, the bee- be held at San Antonio, Texas. Dates

## Is it Theory or Practice?

In the American Bee Journal for January 25 "York Co. Bee:Keeper" is quoted as saying in regard to tarred paper for winter protection: "No siree for an old fashioned Canadian winter." Wonder if he ever tried it? He will perhaps pardon our scepticism but it has long been the custom for the "scribes" to condemn what seemed to them to be poor. Also we would remind him that the use of tarred paper was not advocated for the far north—trial there only in a limited way, was suggested.

## For Benefit of Honey Producers.

To our many new readers we wish to state that the AMERICAN BEE-KEEPER is published for the benefit of the honey producers. We have no axes to grind and our columns are always open to frank and courteous discussion of all subjects pertaining to apiculture. In the past we have fearlessly assailed policies and practices which we believe inimical to the best good of the craft and we shall continue to do so when ever the occasion demands such action.

To control the drones of undesirable or unproved queens it is neccessary not only to keep a trap or drone guard on the stocks containing such queens but also on other colonies, for when the undesirable drones gain freedom by the opening of their hive they will go into any colony that they may chance near. Remember this or you may have no end of tronble.

The customary size for brood frameparts all through Germany, Austria and Switzerland is 7-8 inch in width. Very few recommend more than this, or about one inch; metal spaces are universally in use.

A man is judged by the company he keeps.

### CAUCASIAN BEES.

I deeply regret that the government has undertaken the distribution of these bees without further test of their suitability for the general purpose of beekeeping, and I hope that no one will get any of them unless he is prepared to take the fullest precautions to prevent their mixing with other bees. So far there appears to be much stronger testimony against them than for them. In fact, about the only claim made for them seems to be the comparatively unimportant one of gentleness. It may appear at first sight that the proper way to test them is to distribute them and let the public decide as to their merits. But there is an important difference between bees and other things in this respect. If the department of agricuiture distributes a worthless variety of radish, for instance, no one is greatly harmed. No one is likely to plant them a second time or to raise seed from them, the bad results of the experiment do not extend beyond the experimenter, and disappear entirely in one or two seasons. But the one who introduces a worthless variety of bees into a bee-keeping neighborhood may do his neighbors hundreds of dollars worth of damage which they are powerless to prevent, and the bad effects of which they may not be able to get rid of for a number of years. The worst feature of the business is that those who are least capable of properly testing them and judging as to their merits are the very ones most likely to undertake it.-J. A. Green, in Gleanings.

## Moldy Combs in Spring.

## Evils of Their Presence in the Hive Made Plain.

#### ALLEN LATHAM,

the expert after this manner: "There from worker, into drone-comb. is no harm in the moldy combs; the bees The losses already named are serious

to me that moldy combs are not only with the utmost possible celerity. undesirable but a source of actual loss. A normal colony with clean combs combs.

with its dark combs, thousands of their combs. young bees must labor many hours to One might well ask whether the get these combs fit for use. When the moldiness can be a wholesome condiprofit-yielding season opens these bees tion for the colony. I doubt if any die sooner than they ought.

newing portions of the combs com- under such rotten conditions. pletely. Thus an extra delay is brought Recognizing long ago the harmful-

PON MORE THAN one occasion I ought to take place. It generally haphave seen inquiries from beginners, pens, too, that this renewed comb relative to moldy combs, answered by comes through the process transformed

will clean them up as they need them." enough, but they are in sum total less The reply has caused me more or less than the single item of loss which will surprise, and has made me question the now engage our thought. This loss is observational powers of the apiarist due to delayed increase of brood-nest offering the reply; for from my earliest at a season when it is manifestly deexperience in the matter it has seemed sirable to have the brood-nest grow

It is my purpose in this article to point builds up during April and May in a out the losses sustained, and to offer way to gladden the heart, but the the cause and the prevention of moldy colony with the moldy combs is constantly cramped for breeding space. If there is no other loss, the labor The queen is filling all the available loss alone would warrant all the care cells, to be sure, but the ratio of inneeded to keep the combs free from crease is so small that few young bees It is perfectly true that bees can be spared to clean moldy combs. will clean up combs as they need them, Inch by inch the brood-nests grows, and that this comb-cleaning is done at with its moldy margin ever encircling it, a season when there is no harvest to till the time finally comes when a sufengage the activities of the workers, ficiently large number of bees emerge But it is a pretty well recognized fact to form a cleaning battalion to sweep that a bee's age is reckoned in labor and polish the remaining combs. Yes, units, not time units. It is therefore this time of cleaning does come, but usfolly to age one's bees by giving them ually two or three weeks after clean unnecessary labor. If a hive is filthy colonies have taken possession of all

specific disease can be traced to this Not infrequently combs become so mold, but it would not surprise me in rotten with the mold that the bees find the least to learn that the vitality of it necessary to cut down not only the the bees was impaired. Bees are not cell-walls but the septum as well, re- maggots that they can fatten and thrive

about, more work called for, and wax ness of moldy combs I was always on consumed in comb-building which never the alert to get at the cause and to cause, then get rid of the moisture.

effort was made to combat a plague by getting at the cause and removing the same. Flee it, all who can, was the Thus I removed five of the combs from each hive and left the colonies to winter on four combs each, filling the extra space with wide frames covered and stuffed with absorbent In the spring as the rematerial. replaced in the hives. By this method free from mold.

years ago, when I practiced packing and industry. the bees through in very fair condition meet on common ground. and I should be practicing it today if I had not found a superior method.

Ample ventilation, whether the bees thought. are put in the cellar for winter, or left important to the good health of the for every hour spent. bees and the cleanness of the combs as the bees.

seek a means of preventing the evil. to magnify the evils of those which he The cause was easy to find, and moist-disapproves of, and it is quite possiure must answer for this curse as well ble that I see moldy combs and their as for others. Since moisture is the attendant evils in a very dark light; but whenever I notice the rapidity with One of my early efforts to overcome which a colony with good clean combs the evil, and one marked with success, pushes its brood-nests in April, taking was not in the line of getting rid of possession of whole frames of combs in the cause, but rather of getting away a day, I feel amply repaid for all my from the cause. In ancient times little efforts toward ridding my hives of mold.

Norwich, Conn.

### FARM BEE-KEEPERS.

## A Mysterious and Deplorable Neglect Pointed Out.

GEO. W. ADAMS.

moved combs were needed they were IT IS A CONSTANT wonder to me replaced in the hives. By this method I why more farmers do not keep bees. why more farmers do not keep bees, I got rid of five-ninths of the mold for and also why the few who dokeep them a certainty, and, as it turned out, the do not make better profit. It has been other four ninths for the most part. my privilege to know the Masschusetts The bees covered the four combs so farmer very well indeed, to know him completely that they were kept dry and in his home and his business; and the more I came to know him the more I was That work was done some eighteen impressed by his integrity, intelligence Now, the reasoning my bees on their summer stands, allow- power, the ability to think and form ing an entrance that half a lead pencil conclusions, in short, to study the subwould close. I had not then learned ject, is a characteristic of all successall the evils of contracted winter ful bee-keepers, and this the farmer entrances. That method of wintering has in a marked degree. As to the inwas economical of honey, and brought dustry, the farmer and the bee can

Must we conclude the farmer is too shrewd to keep bees? Perish

Now it is demonstrable that a small on the summer stands, is the great investment in bees will yield 100 per preventive of moldy combs. Ventila- cent profit averaging one year with tion for the removal of moisture is as another and allowing hay-making wages

I have a neighbor who for years paid any other of the several states and the tax on his house and lot and also conditions, which go to make up a profit paid the expenses of a trip, which he -yielding colony, is to the welfare of and his wife took every fall, to visit friends in Connecticut, all from a few One is inclined to overestimate the stands of bees. This man was a shoeexcellences of those things he likes and maker living among farmers. Why

didn't they do as well?

bees"

"Why, what do you mean by fixing them," was my natural inquiry.

"Oh, do things to them to make them pay, and you may have any price you ask. We have had no honey for three vears."

I undertook them at half the net profit and cleared up about a dollar per hour for my working time. The third year it seemed so much like robbery to continue, that I advised them to "keep the water out of the hives and give them supers when needed," which was about all I had done, but within a year they had run out and in two, were gone. vet these people were doing very successful work with poultry.

was dead, but I would look them over. prices to New York members. parts unknown. He had a good investbefore.

dollars a year on an investment of ten ships them direct to the bee-keeper. dollars if he will give the same common The agent never sees these goods and sense management to the bees that he yet he gets his fee just the same. Now, gives his poultry.

the study of the bee may be, the pro-A few years ago I was asked by a duction of comb honey is neither diffigood farmer friend of mine to "fix our cult nor laborious, if the number of colonies is kept within the scope of the man's time.

Rowley, Mass.

#### THE REFORM MOVEMENT.

Secretary of the Jefferson County, New York, Association Explains.

GEO. B. HOWE.

YEAR EDITOR:-It seems to me that it is time the bee-keepers understood more fully what the New York State bee-keepers' societies are doing.

In the first place, the committee on supplies got wholesale prices for the A shrewd farmer and a very success- members. The A. I. Root Co. seeing a ful one, came to me two years ago say- bone of contention tried to get the W. ing his bees were in bad shape, and he T. Falconer Co. to withdraw these wanted advice. I told him my experi- prices. Failing in this, the Root Co. ence had been that the bee-specialist torbade the Falconer Co. selling their was rarely called in until the patient patented goods at less than retail They were in very poor condition but yet the Roots tell us they are our I told him they could be saved, and of- friends. Now, shall we members of fered to take them on shares. "Not a New York state kee-keeper societies bit of it," said he, "bees can be made let this outrage go unnoticed, or shall to pay, you make 'em pay and I'll pay we stand by our obligations and show you." The end of the season gave him the A. I. Root Co. that we are a class nearly \$30 above expenses from five that resent such an insult? Let us colonies, and three swarms gone to give co-operation serious, sober thought.

Now, as it is, we pay the manufacment in his bees and was keen enough turer, jobber, wholesaler and retailer. to see it, but had never made a cent Is it necessary to have so many middlemen? I say "No, a thousand times no!" I admit it is a puzzle, but I believe The agent takes an order of the beethat with the up-to-date, simple hives keeper and sends it to the nearest and fixtures, any farmer can make ten wholesaler, who packs the goods and with the numerous catalogues and Enough good practical advice is price lists, why could not the beeprinted every year in the AMERICAN keeper order these goods as well as the BEE-KEEPER to keep the farmer in the agent and save all this needless exway he should go, and however complex pense? Can the Roots make any sane bee-keeper believe that the difference on freight between car lots and smaller orders will pay the agents' salaries? No one will believe this except the shiftless, slipshod bee-keeper who waits his goods. If you are one of that kind of bee-keepers, get out of the rut at once as it is one of the most expensive feeding to bees. I protest against ways of doing business.

In conclusion, I will say that the W. used, is a safe and perfect bee food. T. Falconer Manfg. Co., and no other,

#### SHALL WE FEED SUGAR?

L. E. Gateley.

CINCE THE beginning of the present wave of popular agitation a until the last minute before he orders great deal has been said in favor of discontinuing, under all circumstances, the use of sugar for the purpose of such teaching, for sugar, if rightly

If, in the autumn the brood chamber is entitled to credit for these reduced should be stuffed to its utmost capacity



APIARY OF SENOR JUAN LANDETA. (See Editorial columns.)

prices on supplies. Now let us show with sugar syrup, there might be a them in a substantial way that we are chance of some of it remaining into worthy of their kindness.

GEORGE B. HOWE. Black River, N. Y.

Little Miss Bee she swung in a tree Sipping the nectar so sweet When along came a swallow And the moral doth follow: Don't be a bee on a tree when you eat.

the ensuing summer and causing trouble. As it is hardly probable, how-Sec. Jeff. Co. Bee-Keepers' Assn. ever, that any bee manager would be so injudicious as to feed in that manner the danger is entirely eliminated. When the proper amount of food is given to carry the bees through in the best condition, what may remain of winter stores will be consumed for brood rearing long before the time when surplus room should be given. A sufficient amount only in spring feeding, is men say that comb honey is being in the sections and feeding is then un- paper. necessary.

Were they, the article would come under critic, rather than injure his victims. the ban of our pure food law.

it will be more profitable to use it.

Fort Smith, Ark.

#### WHY MISREPRESENT?

#### J. E. Johnson.

N PAGE 58 of The Bee-Keeper for March A. C. Miller seeks to defend his antagonistic position, by di- When you're talking 'bout your neighrecting ungentlemanly remarks against the League.

24-page pamphlet issued by the League, on the "Wiley Lie," and trys to defend Wiley's statement by bringing forth the overwhelming evidence that one man told him that in the seventies of cial comb honey.

warrant such assertions.

I have heard many honest, intelligent fide honey producers.

given to meet the demands of the bees made in large quantities by machinery, from one day to the next; in fact, it but this is not true. Nevertheless, Mr. would be harmful to stuff the brood Miller is now defending Mr. Wiley, combs at this time. The only time against the interests of the bee-keepers, harm could attend the practice would which is not in accordance with the be while the bees are actually at work former views of the editor of this

I also notice editorials antagonizing With the price of sugar and honey the National Bee-Keepers' Association very nearly on a level, not taking and its officers, on the following page. account of the sugar lost in getting it This association is a bee-keepers' orinto the sections or the time and labor ganization, and is doing much good; put into the operation, it is safe to say but, perhaps, there are not enough that there are few persons in this offices to go around; hence the officers county financially able to carry on to chosen by the people become subject to any protracted length the production criticism, but such sarcastic reflections of sugar honey on a commercial basis. react to the detriment of the would-be

I believe the readers of this paper Where it is more convenient to use will agree with me that it is entirely sugar for either winter or stimulative wrong to try to tear down bee-keepers' feeding, use it by all means; but it organizations. If in your opinion they will be found quite if not just as expen- are not as they should be, why not sugsive as honey. If the latter is on hand gest means for improvement. It requires the help of many to make any organization perfect, but no special skill is required to tear down. That is generally the work of the unskillful.

Williamsfield, Ill.

#### Did You?

bors

And the foolish things they do. He begins first by condemning the Did you ever think that someone else May be criticising you?

## Not a Honey Producers Organization

We notice that one of our contemporthe last century he had bought artifi- aries continues to advertise the Honey Producers League. We would call the In the first place, the League did not attention of our readers, particularly issue the pamphlet referred to at all, the newer ones, to the fact that this and the mere statement that one man body is not composed of Honey Protold him that thirty or forty years ago ducers and is distinct from and should he had bought comb honey, does not not be confused with the wide spread movement now under way among bona

## Bee-Keeping in California.

## Ten Years Record of One Boy in the Golden State.

L. L. ANDREWS.

fancier's collection.

things forever being cast on the frater-rive. nity. Ten years ago I came to Southern four hundred, which, with some city hand to. property and an alfalfa ranch on Magdeserve.

While I consider this a good showing, two full crops of honey; two half crops, record unprecedented for poor seasons.

could be very materially improved on.

N PAGE 202 of the October AMERI- Of course, to make it a financial suc-CAN BEE-KEEPER is a picture cess and be able to lay by a little for a which, when only taken at a glance, rainy day, one must keep an eye on the one might think, was the contents of a bees through the dry years and those "Child's Noah's Ark," or other toy months when there is no surplus coming in, seeing that they are well housed, Did you ever stop to think how true covers tight, no skunks eating up the that might be of a picture, taken of all weak colonies, and that those very the fixtures, "fixin's" and appliances light have occasionally a comb from that the average bee-keeper will make their more prosperous neighbor; all or buy, try, and cast aside, in the first probably requiring only a day once in a ten or twelve years of his bee-keeping fortnight or even once in a month, but experiences? And, finally, as Dr. Miller nevertheless a prime necessity to the says, "go in for the most money" with life and continuance of the apiary and the least amount of fussing, and let laying the foundation for a good honey those with more time try those new crop when a season for nectar does ar-

Nature will surely, sooner or later, California from Oregon, and having con- provide a harvest, but the man behind siderable leisure time at my disposal, the gun must provide the gathers, and devoted some weeks to bee-hunting, and he that cared for his bees through the from the caves and trees managed to dry years and winter months will surely secure enough for 24 good colonies, reap the reward. And the balance of These, together with their increase and his time should be turned to other purothers bought from time to time are suits such as all men, suitable for sucnow in four apiaries numbering over cessful apiarists, are able to turn a

Turning to the heading of this article, nolia avenue, are all directly or indi- I find in looking over those "Ten years rectly the result of the bees; showing of bee-keeping," there are many things what can be done with these little fel- tried and turned aside, and I have come lows, by giving them the attention they to the conclusion that, for my business, for a purely profit-rendering proposition, devoting as I do my undivided atconsidering the fact that in that time tention to the business, during the we have had, here in California, but honey season, and only occasionally a day otherwise, that the ten-frame one one-third crop, and five failures—a Langstroth hive, two stories, fitted for extracting, top stories left on until late I think, with an average series of in the winter, if season is unfavorable, prosperous seasons, such as we might and not taken off at all if season looks expect, taking the rainfall reports of prosperous, with full outfit at each years past as a criterion, this record apiary, is the most satisfactory to me.

Last season I harvested twenty-four

tons extracted and two thousand pounds welfare of the honey-bee. In fact, the about 700 pounds of beeswax not counted Nature. in the crop, as I usually consider the well wishers. wax will pay for all new hives and

Corona, Calif.

#### THEIR ORGANI. who keep bees. PLEASED WITH ZATION.

Cincinnati, April 6, 1906. Editor American Bee-Keeper:

This association has made every effort since the new legislature met, to make the Ohio foul-brood law mandatory, which finally ended in grand success, due to the hard work of the committee on law, of this society, consist- the honeybee in every particular. ing of Mr. John H. Kroeger, Mr. John Sommers, Mr. John Hoffmann, Jr., Mr. J. G. Creighton and Mr. C. H. W. Weber, all practical bee-keepers of harvest, we remain, Yours truly, Hamilton county.

The Hon. Thomas Hunt, senator of Hamilton county, presented the bill in the senate, and it is due to this gentlemen, who took a deep interest in its MEETING OF CONNECTICUT BEEpassage, that it passed the house of representatives.

Mr. Henry T. Hunt, a brother of the give them, for their moral support.

Attorney G. R. Werner, an honorable suggestions made were as follows: member of this association, to whom every respect is due, revised the bill have been using the Parker foundation in its present form, and bent every fastener, nearly all were captivated effort to call the attention of the Ohio by a hot-plate fastener shown by E. H. law makers to the necessity of its pas- Dewey, of Great Barrington, Mass. sage. This gentleman, though no This fastener does most neat and thorpractical bee-keeper, takes a deep in- ough work with a minimum of melted terest in everything pertaining to the wax.

of comb, with the help of one man three day may come when he will find suffimonths. This does not include help of cient time to spare from his legal wife and family, as in many cases I duties to keep several hives of our little find on investigating, is a big help honey gatherers to make a thorough toward cutting down expenses. Also study of the wonderful doings of This is the opinion of his

Now that the law is passed by both foundation, and the increase at a fair houses, this society being a state beevaluation much more than pay running keepers' association, urge every county expenses, leaving the honey as clear in our great state of Ohio to organize bee-keepers' societies, for the promotion of fraternity among all men and women

> The Ohio foul-brood law does not pertain only to this dreaded disease, but to other diseases of the honeybee also. Further, it provides for the appointment of an inspector of these diseases in every county where bees are kept, whose duty it is to see that all bees are kept in movable comb hives, which is a great stride toward the improvement of

> Wishing all bee-keepers success, and hoping that the next season will bring to each and everyone a bountiful honey THE SOUTHWESTERN OHIO AND HAMIL-TON COUNTY BEE-KEEPERS' ASS'N.

> > HENRY REDDERT, Secretary.

## KEEPERS' ASSOCIATION.

The Spring Meeting of the Connectisenator, and Mr. Eugene Adler, both cut Bee-Keepers' Association was held representatives of Hamilton county, in at Hartford, April 11, from 10:30 to 3:30. conjunction with their colleagues, de- The time was mostly taken in discussion serve all credit this association can of problems brought out in the questionbox. The most important facts and

Though a majority of the members

No one offered a best way to prevent were other enthusiasts, however, who swarming, though such helpful sugges- believed that plenty of honey in the tions were made as furnish good venti- brood-chamber was a good thing at all lation, plenty of room, and above all seasons. get the bees early interested in putting that colonies which get the brood-cham- the most attention. ber cleared of honey at the opening of the honey-flow rarely swarm.

Mr. Rexford of Winsted showed a described of first swarms. swarm-catching device or self-hiver, All members but one reported good

As to "best way to increase," natural honey in the sections. It was agreed swarming and driven swarming received

> Second swarms should be treated in the same manner as will be hereafter



FOUR GENERATIONS OF THE TIPPER FAMILY. (See Editorial columns.)

written up by Alley a few years ago.

Large hives were most in favor, malicious persons. though strong argument was brought sealed honey in the brood-nest at the dry room, well covered from dust. expense of the section honey. There The divisible brood-chamber found no

which was not unlike in principle one wintering. That one said that his bees had suffered from depredations of

Sections after removal are well kept out for a brood-nest which should be no in shoe-cases or other thin-walled boxes. larger than the queen could occupy. Should not be closely packed in case, For, it was argued, if there were sealed but left an inch apart to allow of cirhoney in the outer frames, or near the culation of air and freedom from waxtop-bars, the bees would increase the worms. Cases should be kept in warm

supporters among the members of this prices ruling association.

To the question, "How manage the old colony after the first swarm leaves?" the best answer seemed as follows: Set the old colony one side. Hive swarm on old stand in temporary hive. Leave both 48 hours. Replace old colony on its stand, and drive swarm into same. Bees will cut down cells, and will go to work with renewed energy. Rev. D. D. Marsh stated that this plan never had failed with him.

L. C. Root said that he at one time successfully ripened extracted honey by letting it dribble along a board over a tortuous path, the board being set in a good circulation of drying air. He thought the ease of extracting unsealed honey made up for the labor of ripening the honey, to say nothing of time saved to the bees.

The association passed important resolutions relative to the present high

for bee-supplies, and showed a determination to cease buying their supplies, from members of the "combine," and to buy from such sources as offered reasonable prices. This determination was that strong that a committee was appointed to look after the matter, and to take steps to form a stock company for the manufacture of bee-supplies if the present prices continued.

Officers chosen for the ensuing year were Allen Latham, Norwich, president: Rev. D. D. Marsh, West Hartford, vicepresident; J. Arthur Smith, Box 38, Hartford, secretary and treasurer; J. C. Barton, Hartford; George W. Smith, Hartford; S. J. Griffin, Bridgeport, executive committee; the president, secretary and H. W. Coley, Westport, committee on supplies.

The meeting was said by several to have been the most enthusiastic on record, and the large attendance was most

encouraging.

## Early Spring Swarming.

## An Interesting Account of California Management.

C. W. DAYTON.

IN THE SPRING I keep right straight The first swarm which issues is hailed depositing of eggs by the queen.

ahead, building the colonies up as with gratitude, and with many colonies strong as possible, without turning of near equal strength there will be aside to clip queens, tear down cells or more soon to follow. How to treat shake swarms. Of course, where one these swarms and the old colonies from colony is weak and has a good queen which the swarms issue accounts for a and another is so strong as to be in ad- large share of our success. The requivance of the season I sometimes ex- site amount of surplus receptacles and change combs of brood, but where the clustering space should be on the hives colonies go into winter with young, vig- and the swarms should be placed back orous queens there is seldom much of where they came from. If the swarm this to do. Yet there is considerable issues, say, at eight or nine o'clock in attention required to get all the combs in the forenoon, I shake the bees from solidly filled with brood. Overabundance the limb into an empty hive-body, havof stores of honey in the broad nest, a ing the entrance closed and a screen solid comb of pollen, or an old or moldy over the entire top to give plenty of comb which the bees are tearing away ventilation while the bees are confined may be in such position as to retard the in it. The caged bees should be set in a shady place. After they have been

in this box an hour or so, or long which I did not find by search. with the energy of a natural swarm, and that is what we want. If the old queen is returned with them they will sulk and swarm again, and the queen would not lay enough eggs to amount to anything if preserved.

enough to become clustered, I can bees usually get back into their respecusually raise the screen without many tive hives the same evening or early bees taking wing and cage the old the next morning and go to work as inqueen. Take the queen away entirely. dustriously as if nothing had happened. This will make them very uneasy. Late After the second swarm issues, and in the afternoon, or after they have while the bees are clustering. I go to been in this uneasy state five or six the hive and destroy every queen cell. hours, I raise one edge of the screen Four or five days without a queen, or slightly to allow the bees to get out any larvæ with which to rear one, dislowly and return to the old hive of vests them of all desire to swarm. their own accord, but queenless. After Then introduce a young laying queen or this short season of confinement and insert a ripe queen cell, and they are in queenlessness they will resume work condition to proceed to the end of the harvest.

Extra hives and supers are not needed. All old colonies; all full of bees, and all at work in the supers all the time, except for a few hours, and that few hours of idleness a real advantage. Seven days later the issue of second There are eleven days during which the swarms may be expected. I begin a swarmed colonies must remain queenrecord of the swarming colonies so as less. There can be no system but that to distinguish between the first and the queen must slacken the speed of second swarms. Second swarms are egg-laying for several days. If the allowed to issue as unrestricted as colonies are caused to rear an equivafirsts. Their energy is wanting also, lent of eight well filled combs of brood Second swarms are of large size, as before swarming the fertility of the they comprise all the bees which issued queen is so much exhausted that she is with the first swarm and those which of little account for the rest of the seahatched during the intervening seven son. Hived with a swarm she is only days. If first swarms having old laying able to maintain a colony sufficient to queens issue and both kinds cluster to- utilize a brood chamber. True, work gether it facilitates the work, as the progresses swiftly when the swarm is bees will immediately ball all strange first hived, but that is the energy of queens. And all queens will be strange, the bees, not of the queen. The work The queens can be easily picked out of of the bees is of more account in the the balls and caged or destroyed, hive from which they came than any-While we will have a somewhat merry where else. The advancement becomes time considerable of the day, we can de- less and less as the old bees of the vote the time quite steadily to other swarm die of old age, Some old queens work, as it requires only an hour or so when first hived will get up a considerto take care of ten to twenty swarms, able amount of brood, but that is what Second swarms are caught in screened I choose to call a dying effort; later hive-bodies, the same as first swarms, there will be less brood and the colony They will bring out virgin queens, will hardly be worth wintering. We These mixed swarms are released the might as well try to get a good second same as before, except that a wood- crop of peas on old vines, or make hens zinc queen excluder is substituted in lay eggs in August, as try to get a. place of the screen to retain any re- profitable quality with a queen which maining queen should there be one has once reached the height of her layhiving it is nearly always because her woods. laving was restricted before swarming.

If the honey harvest lasts two months any screens in the apiary. or more, or comes late, as in the buckwheat localities of New York, it may occupied with brood, a half-depth story give time to increase the colonies and get all in shape for the harvest. But even in such locations it will require but a short time until the number of colonies will reach the extreme limit the locations will support.

When increase by natural swarming is desired, queens of first swarms are caged and the cage left with the confined bees, but the queen excluder is put on in place of the screen as previously. If the queen still retains a good measure of laying ability the bees will stay, but if the queen is not of much account nearly all the bees will return to the old hive. Such swarms are not worthy of the use of a hive. If they stay, leave them until they begin to construct several pieces of comb. Then put in the frames of starters, or foundation, but compel the bees to use the excluder as a hive entrance for two or three days more, or they may play a

ing capacity. If she does much after trick by coming out and going to the

My retaining screens are adaptable to

That the lower story may be entirely is used over the brood chamber which contains the winter store of honey. At the beginning of the harvest these are extracted, and on account of their containing a quantity of old honey the product is somewhat off-color.

Instead of watching for swarms by evesight I depend upon hearing nearly all the time, using homemade amplifying horns, which increases the ordinary hum of bees into the roar of a railway train at a distance of 40 rods. Swarming is distinguished by the pitch rather than by the volume of sound. Out of sight and hearing of the apiary a cheaply constructed telephone line is necessary, with horns arranged at the outlying points of the apiary.

Near the center of the apiary I have a bee house, into which I accumulate all kinds of work, which can be done while I am needed there to watch for swarms.

Chatsworth, Calif.

## Worcester County Association

## Bee-Keepers of Massachusetts Will Hold Three Days Free Exhibition Next Fall.

THE WORCESTER County (Mass.) are no charges for space. The exhibi-Bee-Keepers' Association have ar- tion is free to the public. or in the first week of October. The and instruct the public. exact date will soon be published.

CONDITIONS OF EXHIBITION.

- ranged for a three days exhibition of 2. The purpose of the exhibition is bees, their products and bee furniture, three-fold: To bring together for comto be held in Horticultural Hall, Front petition and display the products of street, Worcester, Mass., next fall. bee-keepers. To bring together for The exhibition will be held three days, display the products of manufacturers, either in the last week in September publishers and tradesmen. To educate
- 3. Limit of competition.—Competition is limited to exhibitions called for 1. The exhibition is strictly free to under numbers 1 to 24 of the schedule all. There are no entry fees. There below. A first, second and third prize

(consisting of a ribbon) will be granted must be done while upon exhibition, it and details will soon be published. An is imperative in order to avoid giving worthy displays by manufacturers, pub- bees are artificially fed. Nos. 11 to 15 lishers, tradesmen and others whose are to appear in single frame nuclei. exhibit is not provided for by numbers Each nucleus must contain a queen. 1 to 14 of the schedule.

4. The hall is central, large, well hibitor desires. lighted, and fully equipped with tables, covers, dishes, elevator, etc. special conveniences communicate with bees. the committee in charge of arrangements.

#### SCHEDULE OF CALLS.

Honey.—In numbers 1 to 5 competition is restricted to residents of Massachusetts. Others may display their products and worthy displays will be awarded diplomas. In all cases the product must be that of the exhibitor.

- 1. For the best five pounds of combhoney in section boxes.
- 2. For the best crate of comb-honey packed for market. Neatness of package will be considered.
- 3. For the best two frames of combhoney for extracting. Weight, color, quality, as well as general appearance will govern.
- 4. For the best display of chunk honey.
- 5. For the best display of comb-honey in general. This is open to the taste and discretion of the exhibitor.
- 6. Extracted (or strained) honey.— For the best five pounds of extracted honey in glass. Color, quality and general neatness will govern.
- 7. For the most attractive display of extracted honey.
- 8. Vinegar.—For the best display of vinegar, made from honey. Sharpness and clearness will govern.
- 9. Beeswax.—For the best pound of beeswax. Softness and color will govern.
- 10. For the best display of beeswax. Bees.—All bees must have been raised by the exhibitor. If syrup feeding

in each scheduled exhibition. A series must be done at night or concealed of special prizes are being arranged for within the structure of the hive. This "award of merit" will be granted all the public any chance to believe that Nos. 15 to 17 may be shown as the ex-

- 11. For the best Italians.
- 12. For the best black or German
  - 13. For the best Carniolian bees.
  - 14. Varieties not scheduled.
  - 15. For the best display of bees.
- 16. For the best display of queen bees, ready for shipment, etc.
- 17. For the best display of a queen rearing outfit, showing cells in different stages of development.
- 18. General display. For the best display of bees, honey, wax, bee furniture, etc. The exhibitor is given full freedom to display whatever in apiculture he desires. Products and bees must be of his own raising. (Please make written communication to the committee chairman in order that full space may be reserved.)
- 19. Cookery. For the best cake made by the use of honey. Recipe attached.
- 20. For the best cookies made by the use of honey. Recipe attached.
- 21. For the best display of cake, cookies and confectionery made by the use of honey.
- 22. Photography.—For the best phoograph of a swarm of bees.
- 23. For the best photograph of a New England apiary.

Displays not scheduled above are solicited. Meritorious exhibits will be Manufacturers, awarded a diploma. publishers and tradesmen are urged to make displays. Free space will be allotted to each applicant. Points of merit are neatness, instructiveness of display, perfection of workmanship, as well as the general effectiveness of the

display. Worthy displays will be granted an "award of merit."

Please communicate with the committee on arrangements as soon as possible. The following is the commit-tural Hall, Worcester, Mass. tee and their respective addresses:

F. H. Drake, East Brookfield, Mass.

C. R. Russell, Locust ave., Worces-

William Jacobs, Hudson, Mass.

Alvin H. Hixson, secretary, Horticul-

BURTON N. GATES, Chairman. 10 Charlotte St., Worcester, Mass.



#### FRANCE

## BRAZIL.

### NAPHTALINE.

Mr. Montjovet says that a ball of naphtaline put in the smoker with the now in Brazil, gives a description of ordinary fuel will subdue the most fe- the stingless bees of that country. rocious bees, even the Punics.-La Revue Eclectique.

hybrids as might be produced by what- gnat. ever drones the queens may have mated obtained. - A. G.)

#### QUEEN OR MOTHER.

in the hive. To give more weight (?) his apiary. to his argument he says that we cerhis attentionaltogether. -L'Apiculteur. with vegetable scraps glued together

### STINGLESS BEE.

Mr. Blondet a French apiarist living

The Melipones and Trigones all live in tropical countries. A large number of (While the thought is occuring to me, the different kinds are found in Brazil. I might say that if I am not mistaken About fifty have been studied and de-Mr. Hewitt has been shipping only scribed but there must be considerable virgin queens, that is in the majority more. The largest species are of the of cases: so the so called Punics that size of the common bee or a little larger, have come under observation, are such the smallest only the size of a small

All are stingless but on the other with. This may account for the result hand, their mandibles are not only a tool to perform their work, but also a powerful weapon. An apiary established near a peice of woodland where A correspondent of the Apiculture some kinds of Trigones were very numsomewhat inclined toward the hair- erous was completely destroyed by splitting business wants to know why them. Some years ago, two of Mr. the queen is called a queen and also Blondet's colonies were destroyed by asks whether she is really the mother some of the Trigones that he had in

The Melipones build their nests in tainly consider the hen that sits on the hollow trees and in the crevices of eggs and takes care of the chicks their rocky places. A few species build mother, though each egg may be from under ground. Some have been found a different hen. How the argument occupying the same nest with white would hold in case of a hen hatching a ants. Some Trigones construct their lot of ducklings'seemed to have escaped nests in the open air and cover them

those of the bees, but rather like a two months. wasp nest turned upsidown. The combs are placed horizontally, above, The combs are placed one warm. above the other with short columns or quito", are only of the size of a pea.

These cells are attached outside of a small opening is made.

Melipones and Trigones are peaceable. back when the field bee is in or out. Among those gathered by Mr. Blondet the eyes making a considerable buzzing fully the incoming bees. bitting and emitting a strong odor. part in the proceedings.

The other kind, called there, "Abelha L'Apiculteur. caga fogo", is far more dangerous. Like the others they aim to get in the hair, inside the clothing everywhere and bite unmercifully and unremmit- the residue left after the wax has been

with some matter secreted by them- fainting. Their saliva is quite poisonnous, and every bite leaves a very The Melipone's nests are not like painful mark which lasts as much as

None of the different kinds can stand and the cold. They do not know how to have only one row of cells opening bunch themselves together to keep

Mr. Blondet has in his apiary three pillars between them. The whole is colonies of stingless bees. Like the surrounded by walls built in a very ordinary bees, they stop up all the complicated way making the access to cracks, but while the common bees the nest quite difficult, something like rerely change the entrance, these do. the passages to an ant-nest in a rotten The first hive occupied by one of the piece of wood. The honey combs, or Trigone kinds has constructed a sort of rather honey cells, are in the shape of channel about 5 inches long by 11 in an urn or acorn; their size depends on width. About 30 bees remain in this the kind of Melipone or Trigone that passage to keep guard. In case of an built them. Or rather their size. Those attack they close the channel entirely of the Melipone scutellaire are as large keeping up the building behind as fast as a pigeon's egg. Those of the kind as the assaillants demolish it in front. called by the Brazilians, "Jatay Mos- The material used contains a large proportion of wax.

The second hive is inhabited by a the broad-nest, close together, some colony of Melipone. The entrance is are filled with honey, some with pollen. closed by a block of clay with an open-They are carefully capped as soon as ing just big enough to let in only a they are full. When the honey flow single bee at a time. A single bee becomes insufficient, one is opened and guards the entrance and moves aside used. Then another; there is never to let in the coming bees. Their flight more than one opened at a time. Only is exceedingly rapid and they get right straight in the opening. As quick as Nearly all the different kinds of lightning the guard dodges and comes

The third hive is occupied by a colony only two are dangerous. One called in of Trigone flaveola. Their entrance is Brazil "Abelha-cachorro", attacks the like a split or vertical crack made into imprudents who go too close, by get- a kind of wall built with something ting in the hair, the beard, the ears or like propolis. A guard inspects care-

Other kinds have the entrance in the There is nothing to do but retreat shape of a funnel. One kind, the otherwise the whole colony would take Meliponr genicutela closes the entrance every night with a thin wall of wax. -

#### SLUMGUM.

What we call here, the slumgum, or tingly. The odor they emit is so strong extracted from the combs, is bought by and nauseating that there is danger of several firms in France and Germany.

a distillation of the turpentine leaves holding approximately one-half, the apparatus. -L'Apiculteur.

#### AN ALCOHOLIC TEST.

young man wishes to marry, he is re- ing is the full size of the jar. time, his mouth open, before the hives. angered the bees. -L'Apiculteur.

### AUSTRIA.

### FLOW OF BUG JUICE

Bassler of Trag, in speaking of the remarkable honey season of 1904, says in Seipz. Bztg., that nearly all the trees produced quantities of honey; spruce, pine and beach furnished his bees honey from four to nine in the forenoon and the same in the afternoon every day for a long period, so that he had to extract the combs from his best colonies eleven times. This honey was nearly black and unfit for the bees as winter food. It had to be taken out of the hives and sugar syrup fed in its place. This kind of honey is stored by his bees every year more or less and he has made it an unfailing practice to winter on sugar syrup. Tests made with the black honey always had proven fatal with him. His 23-year practice of wintering his bees on sugar had not produced any deterioration of the bee as far as one could discover; he therefore should continue sugar feeding.

#### GLASS PACKAGE FOR HONEY.

Their process is to macerate the slum- special low prices on this glass package gum in spirits of turpentine, leave it providing the members will agree to until all the wax is dissolved. Then use no other. Three sizes are proposed the wax in the alambic and the turpen- and two pounds. The glass jar is contine is recovered in the upper part of venient for removing the honey. The two-pound jar has a height of about four inches; the one-pound, a height of three and one-half and the smallest In some parts of the Balkan mount- three inches. These jars are about as ains a curious custom exists. When a broad as they are high, and the openquested to stand a certain length of glass cover is made to fit snugly by a circular piece of parchment paper If he is not stung it is all right; if he which is crowded in, I suppose, beis it is believed that the smell of beer tween cover and jar, the former over or whiskey from his open mouth has lapping the latter and making a perfeetly smooth joint over which a strip of paper with the producer's name is securely glued, thus being a guarantee that the package has not been tampered with.

#### CORK HIVES.

Prof. Wallisch speaks in glowing terms of Cork as material for bee hives in "Deutsche Imker." He says cork is produced in Algeria, Spain, Portugal, France and Austria. It is the bark of the cork oak and regularly stripped off from the trees as often as it forms anew. Its porosity and resisting power against moisture and its being a poor conductor of heat fits it admirably for the purpose. G. Kotschwar, in Reichenberg has succeeded in constructing a good, servicable hive of this material and is offering same for sale. Price is not mentioned.

#### GERMAN APICULTURE.

According to the census of 1900 Germany had 2,605,350 colonies of bees, or about 41-2 to every 100 inhabitants. A little more than half of them were in frame hives. In certain localities apiculture is flourishing more than in others. In Oldenburg and Mecklenburg there The Central-Verein for Bohemia is are about eleven colonies kept to every about to adopt a special package for 100 inhabitants: in Sachsen less then extracted honey for the use of the two, in the districts of Hamburg and Manufacturers are making Bremen only 2-10 and 3-10 respectively.

#### THE

## AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

## THE W. T. FALCONER MFG. CO. **Proprietors**

HARRY E. HILL..... Editor ARTHUR C. MILLER... Associate Editor

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scriptions, discontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office.

Matters relating to the editorial department—manuscripts, photographs, or correspondence in any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida.

#### DISCONTINUANCES.

The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages, if any are paid. Those who wish the paper dis-continued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter.

#### SUBSCRIPTION RECEIPTS.

We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wrapper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or requesting the paper discontinued at expiration of time paid for, as may be desired.

If the efforts to have congress remove "denaturized" or made undrinkable, are successful, bee-keepers with others, form the larger societies as is now done will be greatly benefitted, for, by furhand or horse power is now used.

## Preaching vs. Practice.

Among the misinformation and maladvice furnished bee-keepers by some of their pseudo friends has been the strenuous advocacy of the need of "first quality" stock for the making of supplies. The persons who have most persistently so taught have as steadily used such presumed need as an excuse for advancing prices, but they have not been to so much pains to use "first quality" stock. This may have been due to a desire for larger profits, or from a misconception of what "first quality" pine really is. For charity's sake we will call it lack of knowledge of what constitutes "first quality."

The writer has some seventy-five hives made of the so-called "first quality" stock. These have been in use for five years, and, notwithstanding the fact that they have been kept well painted, hardly one of the lot is now sound, and most of them are full of splits and cracks, technically called "shakes." The price paid was for the best, but the quality furnished was along somewhere in the fifth grade, or worse. And this is not an exceptional case. No wonder the masses are rising in self-defense. At the same time their action will benefit those manufacturers who have been furnishing really first quality stock and workmanship.

## Organizations

Mr. Aiken writing in the "Rural Bee-Keeper" for February on "Organized Effort," deplores the multiplicity of organizations, arguing for fewer and stronger ones. If he means fewer bodies of national scope we can heartily endorse him but if he means fewer beekeepers' societies of local influence then the tax on alcohol, when the same is we disagree. We say multiply the local societies and let delegates from these in the state of New York. In such. nishing a cheap and excellent fuel, it union there would be strength which will enable them to have motors where would be so placed that an interested few could not successfully meddle.

### The March of Progress.

A short time ago one of the American bee papers noted the fact that no special subject seemed to be attracting particular attention from the press, and that apiarian matters were running along very smoothly—something on the plan of thick honey through a small funnel. That is to say slow—monotonously slow.

The year 1906 witnesses a very different state of affairs. There is a distinctly audible rattle among the dry bones of beedom. Energetic champions of the cause of apiculture have abandoned the circular, muddy course that bee-keepers have been traveling around and around for twenty-five years and which leads nowhere, and are blazing a new trail through the jungles of Blarney and blind submission to the open fields of the modern, progressive business world. Their object is to lift the apiarian industry from the slough of sophisism, in which it had been all too long mired, and put it abreast with the marching ranks of modern enterprise, where a fair reward in financial returns and a merited dignity accrue to its progressive pursuers.

Reflecting upon the history of all reforms that have come to bless the world, it is not particularly remarkable that these progressive workers in beedom's cause should meet with determined opposition. Much of the opposition, however, comes not from enemies of the industry, but from wellmeaning friends, from whose eyes the scales of unthinking submission have not yet fallen. In every act not perfectly in accord with their cherished and adored A B C book, they recognize the intent of a traitor. If one becomes so bold as to say that which has not been said before, he is, to the oldschool bee-keeper, a "Smart Aleck." He must chant the same old chant with proscribed accent of reverence for the old instructors, or he is denounced as a willful, wayward sacrilegist.

Even though those who are working with us for the betterment of our pursuit should proceed in a manner somewhat different to our own notions of the better way; even though they think contrary to ourselves, and say and do things not according to our own way of thinking and doing, does the reader believe it wise to denounce them as enemies of the cause, and as wilful destroyers of the industry?

This office has recently received a number of letters from a gentleman in the West who is a devoted worker in the apiarian vineyard. He is evidently sincere in his efforts to do that which is for the welfare of American apiculture, but he is evidently wedded to the established order of things, and mistakes progression for antagonism. He asserts that THE AMERICAN BEE-KEEPER is opposing the interests of the pursuit which is its excuse for existence and to which its life work is pledged. He says we are tearing down the work that it has taken years to build, and are working untold injury to our patrons. His letters indicate that in his mind Mr. A. C. Miller is of the Faust type, with horns, cloven hoofs and flaming spear. stalking up and down through the land with no other object than that of overthrowing the bee-keeping industry of the United States. He laments the attitude of this journal deeply, and foresees dire calamity for its promoters. He has severed his connection and all business dealings with one so avowedly opposed to his interests as THE BEE-KEEPER.

The writer has never had the pleasure of meeting Mr. Miller, but for many years he has recognized in him the very elements of which our industry has stood sadly in need—the elements of a reformer; a progressive, studious, powerful mind, with the independence and courage that must assert itself before the bee-keepers of America will be permitted to reap the reward which is theirs by moral right. Every reformer must pass through the unpleasant stage

to which Mr. Miller is now subject, at the hands of a few. We are, however, gratified to note that his work is bearing fruit, and the senior editor contemplates with no small degree of satisfaction his good fortune in having elicited the interest and able assistance of this earnest worker. Hundreds of letters from our readers everywhere attest the general appreciation with which his work is received.

Let us not oppose those who so willingly assume the burdens. Give them encouragement and speed the day when the producers' interests shall stand first in all our apiarian organizations. If the supply manufacturers desire to organize for their own interests, let them do so under true colors, and not seek to effect the same end indirectly through the organizations of the producers. Stick to the bee-keepers' champions, everywhere.

#### Senor Juan Landeta Drowned.

We are advised that the body Senor Juan Landeta, of Matanzas, Cuba, was recently found floating in the bay near that city. Mr. Landeta had left home in the morning to visit his farm, and the cause of his drowning is a mystery.

bees. He was a friend of THE AMERIphrases of Cuban apiculture.

one of the many apiaries in which Mr. Landeta was interested, consisting of 400 colonies and located at Guanabana. nine miles from Matanzas, and owned by the Landeta & Woodward Company. has been very successful.

### Honey Producers Getting in Line.

Beginning with the honey producers of the state of New York, and rapidly spreading, is a new form of cooperation which is proving effective, simple, and fairly free from friction. It bids fair to be of immense value to the honey producers of the whole country, both by lessening the cost of supplies and by eliminating the self-appointed dictators who have so long been manipulating things apicultural for their own advantage and to the honey producers' cost.

The history of the movement is, briefly, this: The steady and long continued advancing prices of supplies and the decreasing price of honey has slowly made matters for the honey producers less and less endurable. Unions and associations of national scope have wrestled with the subject. but failed to bring relief, and the reason thereof only became generally visible when the National convention of two years ago tried to start a honey producers exchange. The failure of certain interests to get control of the Committee on Formation and the subsequent organization of the League by said interests is now a matter of common knowledge. The exposure of these resulted in the Mr. Landeta was one of the most ex-honey producers of the state of New tensive bee-keepers in the world, as at York withdrawing from the National one time he owned at least a part inter- organization and urging others to do est in about eight thousand colonies of the same, with the end in view of the formation of a national association of CAN BEE-KEEPER, and frequently took honey producers, to membership in occasion to inform us as to interesting which no manufacturer of or dealer in supplies, or publisher or editor of a bee In this number we show a picture of paper or their agents or employees should be eligible.

Fully realizing the difficulties of establishing and running a plant for the manufacture of supplies and a special bureau of information, they selected a This particular apiary has for some firm of supply manufacturers in whose time been under the management of Mr. goods and methods they had full confi-E. M. Storer, an old bee-keeper from dence, and arranged with them to Florida and Jamaica; and, though at supply their members with needed goods times badly affected with foul brood, at special discounts. In lieu of a special information bureau they selected an in

dependent paper (THE AMERICAN BEE- who thus try to swell the ranks of beeto whom it has been submitted, and the tions of friendship for them. ciety.

Their efforts failed. We are control of their own affairs. informed that some of the manufacturers and dealers and their friends have expressed surprise that they have not another.

KEEPER) as their official organ and keepers, increasing honey producers and formally indorsed it. So far as we can lessening honey purchasers, feel aglearn this action has met with the grieved because the honey producers hearty approval of all honey producers do not accept with fervor the protesta-

societies of Pennsylvania and Connecti- These same persons, whose business cut have already followed the lead of practices are so opposed to the best New York. The movement has also interests of the honey producer, are been endorsed by the Rhode Island So-taking pains to have their associates or agents become members of the local Naturally, the movement has been societies scattered over the country. It opposed by dealers not fortunate enough is hardly necessary to ask why, and it to have been favored by the honey pro- is but little more necessary to warn the ducers. At the Pennsylvania meeting honey producers to have an eye on every possible effort was made by cer- these people. It may even be wise to tain manufacturers and their agents to reorganize the local societies and make prevent that society following the all supply manufacturers and dealers, action of New York; they even going all editors and publishers and their to the extent of trying to have barred employees and agents ineligible to memfrom the floor the most active member bership in such societies. It is a fight of the Pennsylvania society who was for existence and the honey producers, working for the honey producers, bas- by virtue of their greater numbers and ing their opposition on the ground that larger interests must, of necessity and the said member was a resident of New of right, take and maintain absolute

### Exonerated.

In the American Bee-Keeper for been favored by the honey producers March, reference was made to a pamafter all they have done-or think they phlet which was a compilation of much have done-for them. By way of en- of the unpleasant and discreditable matlightenment, and speaking for at least ter that has appeared in the bee press some of the persons who are behind the in times past, relating to stories about independent movement, we may say artificial comb honey. This pamphlet that their actions in connection with we credited to the "League." Dr. the League were one reason, that the Miller and Mr. Hutchinson hastened to steady pushing up of prices without any inform us that that body was in no way corresponding advantage to the users responsible for it. As the pamphlet was another, and the persistent and carried as a sort of title page, the Conextensive urging of persons to enter stitution and By-Laws of the League the bee-keeping industry was still together with a subscription blank for membership, the natural and logical de-It may not be generally known that duction was that the said League issued many thousands of dollars are expended it. On subsequent inspection we find in the public press to induce persons to that the leaf bearing the Constitution enter into bee-keeping. The "ads" etc., is not bound into the book but is read like this, "Get The Bee Fever," only securely tucked into it. We are "Money in Bees," etc., and inquiries glad to make this correction and exare followed up with expensive cata- onerate the gentlemen connected with logues and booklets. Yet the persons the League. At the same time, it may

a compilation was made and its publica- we drop it the better. tion being considered, they made no lic as to its origin or purpose?

## The Whole Truth, Nothing but the Truth, etc.

Some of our esteemed readers look chasing public. askance at our frank statements of the facts connected with the history of artificial comb, saying that we are undoing all the work of some of our contemporaries for the past twenty years. Stated differently they blame us because they have accepted as facts, untruths or half truths and fear that a general knowledge of the whole truth, because it is contrary to their previously accepted doctrine, will prove harmful to the honey producers.

It has been taught that the manufacture of artificial comb was an impossibility and that Dr. Wiley's statements regarding it were without foundation. Now it is found that Dr. Wiley was right and the teachings were wrong. Such facts cannot be hidden and if the bee press does not publish them it will find itself in an awkward and absurd position when the public press does publish the facts, as it is bound to do sooner or later. The existence of artificial comb and the possibility of its being filled and sealed are facts beyond controversion. effort of bee-keepers to the contrary. producers. Stand by them, boys! Such being the case we contend that it is only the part of wisdom for beekeepers to acknowledge the facts and vent harm therefrom. surely had time enough to prove its ure of comb foundation. Thalz. Bztg.

be pertinent to ask why, knowing such folly and uselesness and the sooner

Tell the people the truth, the whole effort to stop it or to enlighten the pub-truth and nothing but the truth. Artificial comb honey has been made and can be made, but it cannot be made to pay. We have seen that line of argument used and it convinces the pur-

### An Australian Bee Editor.

We have pleasure in presenting in this number of The Bee-Keeper a picture of the venerable editor of the Australian Bee Bulletin, of West Maitland, New South Wales, an independent journal founded by Mr. Tipper in 1892.

Included in the picture are four generations of the Tipper family: E. Tipper, age 70; Mrs. Graham, his eldest daughter, age 45; Mrs. Walmeslay, Mrs. Graham's eldest daughter, age 24, and Master John Walmeslay, age 4.

Mr. Tipper is a native of Bath, England, and has been for 14 years an enthusiastic and successful apiarist and publisher of the Island Continent.

In season and out of season work for the adoption of the Parcels Post for it will free you from the exactions of the express companies and will thereby lessen to you the cost of all merchandise you have to get from a distance.

Among others, Mr. H. S. Ferry, of facts were publicly known before we New York, and Mr. Allen Latham, of published them and sooner or later will Connecticut, have been and are still be widely known despite any desire or doing yeoman service for the honey

#### COOKING GERMS IN GERMANY.

Reidenbach says: it has long been find and adopt efficient means to pre- proven that all spores are destroyed Denying the when subject to a temperature of 150° existence of artificial comb and railing C. or about 300°F. Beeswax may be at Dr. Wiley has never done any good, heated as high as this, he says, withfor the public still believe that artificial out damaging it, and all wax from foul comb honey is made and is still on the broody hives should thus be treated bemarket. That line of procedure has fore making use of it in the manufact-

## HONEY AND BEESWAX MARKET.

Boston, March 22.—Our market is practically cleaned up of 1905 crop comb honey, leaving a fair stock of old honey still on han, which ought to sell well now that the new is out of the way. The market on best grades fancy white, 16 to 17 c, with very little to offer. Extracted, from 6 to 7 c according to quality.

Blake, Scott & Lee Co.

Chicago, April 20.—There is very little comb honey on the market and as usual at this season of the year the demand is very limited. There is no chang in the prices obtained from recent quotations Choice white comb will bring 15c when wanted; other grades are of uncertain value, ranging from 10e to 14e per lb, Choice white extracted 6½ to 7c amber grades 5½ to 6½c. Beeswax 30e per lb. R. A. Burnett & Co.

Cincinnati, April 4.—There is no material change in the honey market since our last report. The demand does not come up to expectations, which in all probability, is due to the inclement weather of the past month. Continue to quote amber honey in barrels at 5¼ to 6½ c. Fancy white in crates of 2-60 lbs, cans at 6½ to 8½c. For choice, yellow beeswax we are paying 30c per lb delivered

The Fred W. Muth Co.

51 Walnut street.

Boston and Worchester. April 10.—Fancy No. 1 grades comb honey wholesale for 13c to 17c, No. 2 at 14c. Stock is cleaning up better than last year. Demand is excellent. There have been no full Demand is excellent. There have been no full cars sent to Boston this year because so much was carried over from the previous season. W. H. Blodget & Co.

Kansas City, Mo., Dec. 7.—The supply of honey is good. The demand is fair. We quote our market today as follows: Comb, \$3.25 per case. Extracted, 6c and 6½c. C. C. Clemons & Co.

Buffalo, Dec. 6.—The supply of honey is only fair and more needed. The demand is good for fancy. We quote our market today as follows: Comb, fancy, 12-14, No. 2, 8-10c. Extracted, 6-8c lb. in 5 gallon cans. Beeswax 28-32c. Really fancy one-lb. comb is wanted, but lower grades move slow and have to be cut accordingly.

Batterson & Co.

Batterson & Co.

New York, Dec. 6—Comb honey—The demand continues to be fair for all grades. Prices practically remain the same. We quote fancy white at 14 to 15c; No. 1, 13c; No. 2, 12c; buckwheat 10c per lb. Extracted honey is in good demand, especially California, with large supplies. We quote white, 6½ to 7c; light amber, 5c; huckwheat, extracted, 5½ to 6c per lb. Beeswax, firm and steady at 29 to 30c per lb. Hildreth & Segelken.

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QUEENS HERE.—We are still asking you to give us your trade, We sell Italians, Goldens and Carniolans at 75c for untested and \$1.00 for tested. Prices on quantities and nuclei upon application. JOHN W. PHARR, BERCLAIR, TEXAS. Jan. 6

SWARTHMORE APIARIES, SWARTHMORE, PA.—Our bees and queens are the brightest Italians procurable. Satisfaction guaranteed. We are breeding the Caucasians absolutely pure from direct imported stock.

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HONEY QUEENS AND BEES FOR SALE. l extracted 300 pounds per colony in 1903. THOS. WORTHINGTON, Leota, Miss. Aug 5

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BREEDING FROM SELECTION MERELY rejects the poorest. Long harvests, high mountains and deep blossoms improves the best. For queens bred along this line address for particulars, C. W. DAYTON, Chatsworth, Calif.

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QUEENS from Jamaica any day in the year. Untested, 66c; tested, \$1.00; select tested, \$1.50. Our queens are reared from the very finest strains. Geo. W. Phillips, Sav-La-Mar P. O. Jamaica, W. I.

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BEST GOLDEN and three-banded Italian Queens untested, 75c; tested, \$1.50. Hardy and prolific. Nothing better, Send for circular, MENNIE & FENTON, Pine Island, Minn. jul 6

## HONEY DEALERS.

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C. H. W. WEBER, Freeman and Central Aves., Cincinnati, Ohio. If for sale, mail sample and state price expected, delivered in incinnati. If in want, write for prices, and state quality and quantity desired.

WE are always in the market for extracted honey, as we sell unlimited quantities. Send us a sample and your best price delivered here. The Fred W. Muth Co., 51 Walnut St., Cincinnati, O. 5-5

#### COLORADO.

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INCREASE is a handsome little book telling how to form new colonies without breaking working stocks. A simple, sure, satisfactory plan, 25c. Baby Nuclei tells how to mate many queens from sections with a mere handful of bees; 42 pages, 20 pictures, 50c. Cell Getting tells how to save labor in rearing queens, 50 cents. Queen rearing outfits. Golden all-over and Caucasian Queens. Circulars free. E. L. PRATT, Swarthmore, Pa.

# 3 and 5-Band ITALIAN and CARNIOLAN QUEENS Equal to the Best.

Untested, 50c each. Tested, 75c each.
One and two frame nucleus per frame, 50c. Prompt attention, safe arrival and satisfaction guaranteed.
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LEWIS SECTIONS are made from white Wisconsin Basswood, the finest in the world. Lewis sections are the finest in the world. They are the most carefully selected and the most carefully made. INSIST ON LEWIS GOODS. Accept no substitutes.

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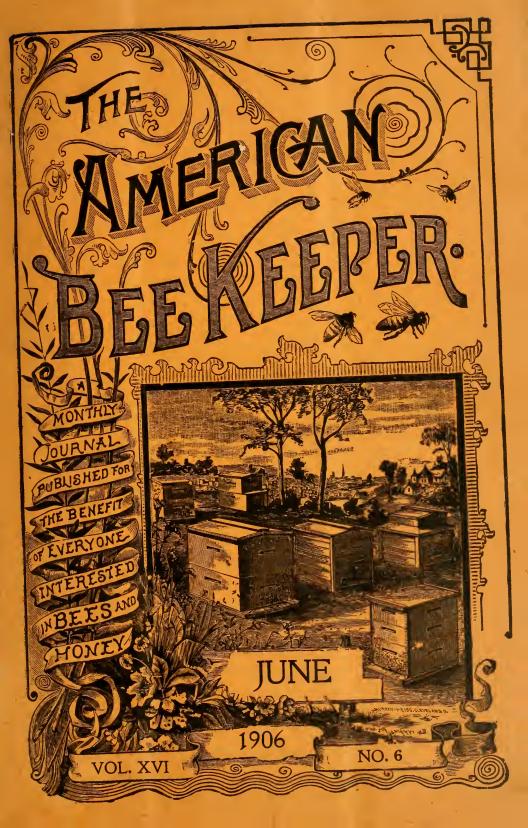
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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

JUNE, 1906.

No. 6

### Swarms and Swarming.

Influences and Conditions Having a Direct Bearing Upon the Subject. - Questions Answered.

C. W. Davton.

lating to swarming:

Q. How many colonies can you man- be too old. age by your plan in one yard?

gether the better.

queenless after the second swarm is is varied a great deal by the amount of returned? There must be considerable reverence the bees possess for their old unsealed broad in the hive and thus queen. A good one more and a poor give the bees a chance to rear a queen. one less, almost down to nothing. This

MR. V. A. HANSEN, of Wisconsin, after the first swarm issued and then asks the following questions re- the queen might leave a few eggs and there would be larvae that would not

In the third paragraph there is this A. Never found the limit. I have sentence which is not thoroughly corhad 225 in one yard and each colony rect: It says that second swarms are swarmed twice. It required about one of large size because they include the and a half hours per day. It takes bees of the first swarm. That expresabout eight swarm boxes to the 100 sion has been stereotyped so often that colonies. The more they cluster to- it was penned without a ripple of thought. It is true in some cases but Q. How can you keep your colonies not always. The size of the first swarm A. The youngest larvae is sopposed is governed by her age and her ability to be four days old or seven days from to lay eggs for the future prosperity of the egg-too old to rear a queen from. the colony in the new home. If the If the first swarm was to be delayed a queen has not been restricted in her day or two, by weather or other inter- laying she will have reached the height ference, it might cause the second of her capacity some time previous to swarm to issue in less than seven days the issuance of the swarm. Such a

have the working energy of a man of from for his whole apiary. 30. He might have the resolutions and velopment of the young queens may combs in their new domicile. the same conditions.

veloped a swarming mania from some labor. cause or other. These may try to obtained by common methods; and when The bees gather the honey; that is the

queen is of the highest value in the old it is obtained it is not noticed by the hive before the swarm issues, but not bee-keeper. He takes it for granted of much account in a new colony. You that the bees of such a colony are really might as well expect a man of 60 to non-swarmers and breeds queens there-

By the common method the swarm knowledge but he will be found lacking comes out and the old queen with it. in physical strength. He has been at If increase is not desired the swarm and the top of the hill and is going down old queen are returned to the hive from the far side. The bees desire to cast which they came; and their queen cells their lot with a queen that will improve destroyed by the apiarist. But the with age. The bees of the first swarm bees belonging to the old laying queen have devotion or attachment to the old have little regard for cells. They requeen, but as soon as the old queen is turn to the hive only to swarm another absent a devotion is cultivated for the day. In a couple of days the honey queens yet in the cells. And those they took in their sacs is being conbees which are nurses during the de- verted into wax for the construction of have more devotion to the young queen have been out several times and loafed than the field bees which ordinarily is- in the hive until they have lost all insue with the first swarm. From these terest in the affairs of the old hive and assumptions it can be discerned how a cluster upon it merely to rest or for first swarm may issue and leave the old temporary shelter from the dews. It hive well stocked with bees, or how a is like allowing a hen to sit ten days second swarm may issue and leave the and then attempt to break her up and hive well stocked with bees. It shows have her go to laying again, to try to that there are two different conditions get these bees to resume labor with old that bring upon the bees the disposition conditions unchanged. Even if the queen to swarm and that all the bees in a is removed now it would take considercolony are not readily susceptible to ble time to stop the secretion of wax and dispose their minds or instinct to Now we come to these after-built resume work in the old hive. It must cells and the queens. The queens from wear off slowly, in a length of time, such cells are poor. When we remove and meantime the richest of the harthe old laying queen and those queens vest is passing, and the bees are ageing also that come out with the second rapidly. The old queen has spent her swarm we have the hive filled with vitality to bring up the force of bees bees that have very little regard for and if they do not work now all is lost queens of so low a grade. There may beyond recovery. They may become be bees in the colony which have de-consumers of the product of other bees'

It is more commendable to handle one "raise a rumpus" and excite the other colony according to the rules of nature bees to swarm, but usually only a quart than to produce a whole car load of or two will get on the wing until they honey by haphazard management. begin to return to the hive again. Here Commendation may be the result of igis a disposition of bees that is opposed norance as well as knowledge, and in a to the swarming mania. We may crowd swarming system I believe the disposithe hive all we can and they will not tion of the bees should be manipulated swarm. But this disposition is seldom more, and the hives and fixtures less. principal consideration, and as Doolittle bees. says, they can store it in a nail keg if there is nothing better provided.

regarding swarming. They forget their queen, so that when they are returned to their old hive they readily take up with the work in hand.

As soon as a swarm alights on a bush the queen begins to travel through and through the cluster of bees leaving her scent on each worker she touches or travels over, and this is the main stimulus that causes the bees to seek isolation from the parent hive.

Chatsworth, Calif.

#### SHADOWS ON THE BEE-HIVE.

#### Rev. C. M. Herring.

management of the hive.

to sad disappointment. They com- is injected by the sting. mence without counting the cost.

not all honey. It is not composed of face and hands will occasionally smart the Christian graces. It is void of loy- under the influence of this dreadful liness. It has no traits of a pure un- weapon and in some extreme cases historians, poets and philosophers from was dreadful. the earliest ages.

It is said almost every form and variety of human crime is found among If we confine the hen in a box away animals, and bees are no exception to from the nest she may get over her dis- the rule. Buchner, in his "Physic Life position to sit and start to laying again of Animals," speaks of the thievish in a few days. So, also, if we confine bees, which, in order to save themselves a swarm of bees in a box their scare the trouble of working, attack welland separation from the queen rids stocked hives in masses, kill the sentithem of all their former intention nels, rob the hives and carry off the plunder.

After repeated acts of this kind they acquire a taste for robbery and violence. They recruit whole companies, and finally they form regular colonies of brigand bees. These brigands, he says, can be produced artificially, by feeding the colony with a mixture of honey and brandy, by which they soon become ill disposed and irritable, losing all desire to work, and compelled by hunger they push the work of plunder. Nearly all bees, as a rule, are of quick temper-ever ready for a fight-and being armed with a sting, having a barbed point at one end and a bag of THE APIARY IS not all honey. There poison at the other, the bee at once beis a dark and rough side to the comes a creature of the human race.

To encounter one mad bee often puts Failures continually attend this busi- the life of the master in jeopardy and ness. The great majority of those who every bee-keeper is destined to hold in plunge headlong in this work are doomed his blood more or less acid poison which

Inexperienced bee-keepers will not And then, the character of the bee is escape this evil and swollen eyes, scars, selfish life. It is true from the bright death will follow. When enraged it is side of the bee there are many things sometimes found that a whole colony to call forth our admiration. The sweets will become excited to frenzy and fill of the hive and the wonders of the little all the air with terror. There is one kingdom have engaged the attention of such case on record and the calamity

The beginner in meeting this pointed They dwell on the bright side of the weapon of the bee is liable to become bee, and leave its defects in the dark. disheartened and turn away from his Admitting all the good that can be said enterprise. It is said of a man in New of this wonderful creature, still there Jersey who was greatly elated at first are outs that should be considered be- with his large purchase of bees, but fore taking up the management of when he put his hand to their management and encountered the temper and sting of his pests, he became so disgusted with his dangerous subjects that he made a huge stack of all his hives and set it on fire. He had not counted the cost. The outs were not heeded and his folly appeared.

The beginner should begin in a small way and learn the trade little, by little. This is the only way to success in bee culture.

To manage bees successfully is a trade that must be learned and the full price must be paid.

The bee master who understands his business has acquired his power by long and patient toil. He knows his bees and his bees know him. He visits them every day and is delighted in their company. He avoids all irritation and makes the harmony mutual.

Brunswick, Maine.

#### NATIONAL CONVENTION.

The National Bee-Keepers' Association will hold its annual convention for 1906 November 8, 9 and 10, in San Antonio, Texas, thes dates occurring at a time when the Texas fair is in progress and low rates will be in force, locally, for several hundred miles out of San Antonio, and at the same time there will be the homeseekers' rates available from other parts of the country.

W. Z. HUTCHINSON, Secretary. Flint, Mich., May 2, 1906.

#### PLANTING FOR HONEY.

Swift River, Mass., Feb. 12, 1906. Editor Bee-Keeper:

I am sending herewith a picture of the apiary of Mr. M. P. Clark, of Hampshire county, Mass.

Although Mr. Clark devotes but a for bee pasturage, and has talked it up race of bees.

with the neighbors and induced some of them to grow alsike for hay, thus benefitting himself and them also. Don't you think others might follow Mr. Clark's example with profit? Would it not be worth while, fellow bee-keepers,



MR. CLARK'S APIARY.

to arrange to plant some basswood trees this spring and have them growing? I have a few growing and intend to set out more.

Wishing yourself and all the fraternity much success, I am,

> Very truly yours, A. E. WILLCUT.

#### BANATIAN BEES.

The following was received from Mr. E. L. Platt, of Swarthmore, Pa.

Editor Bee-Keeper:-Mr. Bassler, a Bohemian and director of a bee publication in Hungary has the following to say of the Banatian bees, or "Banats" as the Americans call them:

"The Banatian bee is related to the Carniolan: it is finer and more graceful than the German Black; like the Carniolans they are liable to be somewhat colored. Banatians are very active and prolific, but swarm less than Carniolans."

It seems to me that if we can find a small part of his time to bee-keeping, bee with all the desirable points of the he is well posted and successul. He Carniolans with the added feature of advocates the sowing of alsike clover not swarming we have a very desirable

### Bees on the Farm.

### Neglected Opportunities With Detailed Instructions for Their Utilization.

GEO. W. ADAMS.

considerable importance.

There are few fields of profitable bee-master. labor unworked in these busy days, Here is the plan: An investment that metal. Profit from small things, util- shall say just what I mean. ization of waste, is the cry, yet the First, buy a good book on the bee upon his table through bee-keeping.

will.

some apiarists for "inviting so many not on a fixed sum, and you must have into the business." They feared com- lots of experience before you can use a petition. A moment's consideration poor hive profitably and then you will will show there is no danger of this. know better than to try. I use the The increased use of honey will help, eight-frame lock-corner hive as made not hurt the market. Make the use of by the Falconer Co., and Root. honey as general as it was 100 years While I find the eight-frame the best ago and the supply would not equal the for my apiary, I should be inclined to demand, and besides, I do not advise advise the ten-frame size for the the farmer to start an apiary. I tell farmer, as they winter more safely and him plainly that every colony above he will not lift, carry, or "tier up" five is a damage to him. Up to that enough to make the extra weight of number their care will not interfere with any consequence. his regular work, neither will he need In the matter of outer case, or chaff appliances and material the purchase hive, there is the question of the of which will for a time impair his per amount of money you care to invest;

AFTER MANY years of practical ex- cent of profit. Under this number perience and knowing the farmer, he will not be likely to be troubled by his needs and opportunities as I do, the thousand and one things in the way this subject appeals to me as one of of complications, entomological and otherwise, that always come to the

only last evening I noticed a heavily taken one year with another will pay leaded advertisement for cast-off pre- 100 per cent net profit, and as no dealer serve tins, and the country side is or supply manufacturer has, or ever scoured daily in search of bits of rag or tried, to get a collar on me I can and

farmer, the most prudent and frugal of and I cannot recommend "Langstroth our citizens almost entirely fails to revised by Dadent" too highly-it fits seize the opportunity of taking at least every place and is as interesting as a a dollar an hour for a little time to say novel-then subscribe for THE AMERInothing of the delicious and healthful CAN BEE-KEEPER, you will find it a food which he might so easily place great help and it will keep you "up to date. Read your books carefully and Now this is a "condition, not a theory." then decide on the kind of hive adapted Not one farmer in a hundred has ever to your locality, I assume you will protried it, yet the few I have persuaded duce section honey. Buy the best, I to take it up none have failed, and none don't care what they cost if the workmanship and material are there. We I have been sharply criticized by are planning on 100 per cent returns,

any one can make an outer case from a bee master. He will show you the old boxes, but the saving is not great interior of the hive, instruct you how good lead paint.

Now buy a smoker, veil and gloves, the latter merely to prevent nervousness in the first work you do, after becoming accustomed to your bees put the gloves away for use in an emergency only, in ordinary work they are never needed.

You should also have a drone trap and learn its use in swarming. You will notice the out-fit is not costly, and there is not a patented article in it. The patent on the drone trap I am told has expired. I mention this to show the simplicity and cheapness of the stock in trade, not to advise making any of the appliances.

stick to that promise.

Next, you are ready for your bees, and two colonies will make a good beginning. Two, because one can help the other and save it should it get into bad condition from any cause except benefit to the crops owing to the fertilinfectious disease.

It will be cheaper to start with two swarms rather than two colonies, and as your knowledge develops with the swarm, and as the examination of a swarm is less difficult than of a colony, and as a swarm stands moving better and is less irritated thereby, it would be my choice for a beginner. The returns the first year will however be as a rule, much less. In beginning be sure that every frame is movable, combs flat, free from drone cells and brace combs, and keep them so. Always have every frame so it can easily be taken out and examined.

You will do well to buy your bees of bune.

and is often at the expense of the looks to open and examine it, will give you of the little apiary, which should be valuable information as to the time to placed very near the house and be an put on and take off your supers, and ornament rather than a disfigurement, points on the requirements and condi-Also remember that it costs less than tions of your locality. He will probnothing to keep hives well covered with ably charge you more than a farmer would and the goods will be worth more, but remember he is doing profitably many things (like the use of shallow hives) that it will not pay you to imitate. Study simplicity, and have absolute uniformity in hives and fixtures.

Learn to know your bees, go among them with slow and gentle movements, wearing when possible, light-colored clothing. Always use a little smoke and much common sense in handling them. Give the little people one onehundredth the care you would give the same money in hens, remembering that the hen lives only to destroy and chuckles with glee over every success-Now take a large piece of chalk and ful effort to injure your garden, while write upon the shop door, "I will try the bee wears her little wings to tatters no experiments the first year;" and in her untiring effort to protect your harvest.

As to the best kind of bee, I assume that every practical farmer knows the value of well bred, gentle, stock,

I have not touched upon the great ization by the bee-it is more than equal to the profit from the honey, and is a subject of great importance.

Rowley, Mass.

Later Mr. Adams will present special features of the Farm Apiary. - Editors.

#### Bees Sting Farmer to Death.

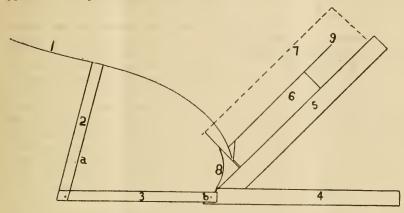
Carlisle, Pa., May 14.—Abram Whistler, a farmer, living near Newburg, was hauling a hive of bees to his home today, when a sudden jolt of the wagon knocked the top off the hive. The hundreds of bees thus released, attacked Whistler and stung him so severely that he died shortly after.-New York Tri-

#### E. H. Dewey.

foundation fastener. The drawing is loosely secured to 3 at B. supposed to represent the machine When the machine is closed the

A NEW FOUNDATION FASTENER. that holds the section securely against the base of the guage.

The two rods that support and trans-Editor BEE-KEEPER:-The enclosed mit the motion to the curved plate are photo is a very good likeness of my new 2 and 3. The movable table, 4, is

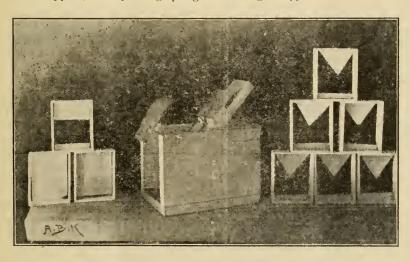


SECTIONAL VIEW OF DEWEY FASTENER.

when closed- the heated plate in par- starter is slid down the plate until it ticular.

9 is the stationary plate; 6 the guage starter is then pushed to the section. and 5 the support; 8 is a yielding spring A wedge slipped between 5 and 6

touches the heated plate when the It is the curved plate that recipro- pressure on the table is relaxed and cates on a bolt at A. The dotted line the curved plate is automatically is supposed to be the section in place; carried away from the section. The



DEWEY FASTENER AND ITS WORK.

will space the machine to center any section.

You will notice that the forward edge of the heated plate, when the machine is closed, does not come in contact with the section or any part of the machine at that point.

Great Barrington, Mass.

#### HONEY PRODUCT OF NEW ZEA-LAND IS ENCOURAGING FOR THE FARMERS.

#### Burton N. Gates

THE ANNUAL REPORT of New Zealand department of agriculture for 1905 comes to hand after a most prosperous year in the history of New Zealand apiculture. The efficiency of the Division has been materially increased by the appointment of Mr. Isaac Hopkins, "the best bee expert in Australasia," as apiarist. Mr. Hopkins took his office in Wellington, January 24, 1905. During the year he has visited and given personal instruction to the owner of nearly every apiary in New Zealand. The yards are in the country, far from the towns in many cases, and have necessitated much Nevertheless, of about five hundred colonies now in box hives and destined to the "sulphur pit" method of removing the honey, Mr. Hopkins expects within a season or two to have nearly all the owners of these antique hives converted to modern methods. The bee-expert, in his tour, visited 119 apiaries which represents more than 2,450 colonies.

Disease, "foul-brood," the expert found "decisive evidence of in most districts visited." All the bee-keepers were anxious to free themselves of it and to be sure that the other fellow, his neighbor perhaps, did likewise. Legislation was advocated and met with universal favor. Consequently a bill has been drawn up and will be presented to Parliament. The bill will be known as the "Apiaries Bill."

New Zealand has nothing but bright prospects in apiculture. The conditions there appear unsurpassed. Atmosphere, rains, climate, all favor luxuriant vegetation. The expert remarks, "our bee forage is second to none in the world. We produce some of the finest honey in the world; it fetches the highest prices in European markets of any foreign honey. There is an unlimited demand for it at renumerative prices. local market, too, demands at present 600 tons per annum." This speaks well for the honey-bee in New Zealand.

Mr. Hopkins' report is illustrated with five superior full page half-tones of combs, normal, diseased, and worm eaten. Besides this report, annually, the Department has already issued several apicultural leaflets for distribution among farmers; others are in preparation.

From the Annual Report of N. Z. for

"One forward step, that gains sure foothold on the track,

Is worth two steps ahead where one slides three steps back."

-Ruckert.

"Where thou know'st not the way, There take a guide to thee, But does the guide himself know it? Be sure and see!" -Ruckert.

#### Denver Honey Market.

Denver, Col., May 18, 1906.—The supply of honey is nearly exhausted. The demand is fair, time of year considered. We quote our market today as follows: Comb, fancy white per case of 24 sections \$3.40. No. 2 per case \$2.40. Extracted, 7 to 71c per lb for white al-Beeswax 24 to 25c. falfa. practically no comb honey in any of the western markets now, and the new crop should find a ready sale when it comes in.
THE COLORADO HONEY PRODUCERS'

As'sn., F. Rauchfuss, Mgr.

### The Caucasian Bee.

### Once Created Great Excitement in Germany, But Now Forgotten.

OTTO LUHDORFF.

THERE SEEMS to be a great de- Regarding their quality of gathering cerning the Caucasian bee. While I apiarists attain good results with them. cannot say anything from my own ex- Whether this bee is any better than perience, I have a little book written other races the future may prove. by reliable men, and a few extracts are freely but carefully translated.

tleness. This gentleness was particu- these queens. larly remarkable as I generally handled very cross bees.

cipal point, why I paid particular at- out smoke without being stung. tention to this bee. This trait of genyou here a comb which has on a single good reliable men there." place about twenty queen cells. I did At the same convention Mr. Gunther,

mand for more knowledge con- honey I only can say that the Caucasian

"When I learned the qualities of this from the same may be of interest. The bee, I secured immediately eight queens book is written in German and extracts which I gave to a bee-keeper in Moscow on my return. I did not visit my On the 10th of September, 1879, Dr. apiary that year again, therefore I did Buttlerow, of St. Petersburg, Russia, not use the queens myself. This was addressed the convention of the Ger- in 1877. In the following year, 1878, man-Austrian bee-keepers, at Prag, three apiarists of Moscow said that the Bohemia, concerning the Caucasian bee. queens raised from those eight imported He says: "About two years ago I ones were all very gentle. I made now went to the Caucasus and found there the proposition to the Russian governthese bees. They attracted my atten- ment to let me go again to the Caution particularly by their color and gen- casus and import larger numbers of

"Finally I made the journey to Wladiskawkas, in the Caucasus, where "I consider the Caucasian bee only as the most extensive bee-keepers are loa race in the same way as other spe- cated, and sent from there four queens cies, as for instance, the Italian is con- to Mr. Vogel, and four to Mr. Gunther. sidered as a special race. There are no I bought these queens from the most sharp lines between the black and yel- prominent bee-keepers. I learned here low bees; but if we consider the origin that some apiarists prefer black queens we have to speak of races. I believe to yellow ones. I found also that the that we can speak only in this way of gentleness of these bees is phenomenal the Caucasian bee, as a race. The ex- (very remarkable). I handled bees treme gentleness was for me the prin- even in the evening extensively, with-

"I went over the mountains into tleness remains always constant, and Asia to the coast of the Black Sea; the also the property of building immense bees here are blacker than at Wladislots of queen cells, and much swarming. kawkas and not so gentle. I am of the They told me that the Cyprian bees opinion that we should buy only those built also many queen cells. I show from Wladiskawkas, because we know

not select this comb specially. I sim- who received four queens from Dr. ply took it out of one hive at random. Buttlerow, and tried them, sustains the descriptions as made by Dr. But-reported at the same convention his ex-

"Generally the Caucasian bee does not he gladly accepted them. robbers, but she is not phlegmatic, of these queens to Mr. Gunther. rather the contrary. She is quick and In June, 1879, he received from Dr. a good race, worthy to be introduced queens about four months. into Germany. Whether she will win- Mr. Vogel says: "The Caucasian careful."

perience with the Caucasians.

Mr. G. Dathe-Eystrup received two This gentlemen says that the natur-Caucasian queens from Dr. Buttlerow alist, Pallas, ordered by the Empress direct from the Caucasus, as reported Catharina II., went to the Caucasus in in No. 2, 1881 of Eichstatter Bienen- 1773, from where he sent this bee under zeitung. These queens were sent with the name of Apis remipes; one specismall swarms and arrived in fine con- men of which could be seen in the endition. He united them with strong tomological collection in Berlin, Ger-German colonies, which was easily done many, in 1862. He learned from Dr. without causing any fighting. He calls Buttlerow that the Caucasian bee is a special attention to this, as he had special race which varies considerable some bad experience before with Cy- in the color of the abdomen; they look prian bees, which killed all his German similar to crosses of German-Italian bees when he united them. He found bees, but in the neighborhood of Wladthe Caucasian queens as fertile as the iskawkas they are at least as pretty best heath queens and Italian queens, yellow as he liked to see in Italians. They were also good flyers. He says: Dr. Buttlerow offered him queens and

sting, but if she is irritated and pro- Mr. Vogel received in May 1879 a voked she can also sting." You may dispatch from Dr. Buttlerow: "Sent suppose that the Caucasian bee is you 12 queens yesterday." All queens phlegmatic because she does not sting, lived, but some arrived daubed with and would not defend her hive against honey; three were hurt. He sent four

full of life. She flies quick from the Buttlerow a second lot of four queens. entrance, and upon her return enters They were better packed; the boxes quickly. These bees do not hang much were specially made for the purpose. around the entrance; they are good de- The difference between the two lots fenders against robbers. It is peculiar was that the first lot contained the that they do not hang much around the dark Caucasian queens, and the second hives, even when it is very warm. As lot coming from Wladiskawkas brought they are good flyers, they should also the lighter colored queens similar to be good honey gatherers. According the Italian race. He made his report to my experience the Caucasian bee is on September 10, and so had these

ter well and will prove to be of great bees are a special race although they value, the future must prove. I will vary much in color. In size they are a add one more point: It is not an easy little smaller than the Italian and Germatter to keep a foreign race pure. man bees, although hardly noticeable. With other races, for instance the Ital- The Caucasian bees are very gentle. ians, one can recognize the hybrids by When handling these bees smoke is not their color. With the Caucasians this necessary. They do not even get exis not so easy. Therefore it is to be cited when I blow against the combs feared that in the future many queens full of bees. They are good defenders will be sold as Caucasians which are against robbers. The fertility of the only hybrids. The buyers must be very queens is extraordinary. Of those queens received in May, two colonies Mr. Fr. W. Vogel, Lehmannshofel, built up to such a size as I have never

build drone comb seems to be very great with this race and indicates much swarming, but my strong colonies did not swarm this year, although there were many swarms of others in my neighborhood. These bees swarm much in the Caucasus: Dr. Buttlerow reports that five colonies cast nineteen swarms. They build many queen cells here in Germany. It is not difficult to find 100 queen cells in a single colony of moderate strength.

"I do not know yet how they are in honey gathering, as nearly all the honey in my hives has been gathered by the old bees. Wherever my sweets were exposed the Caucasians were on hand, and from this I conclude they are also good honey gatherers. The next year will show whether the Caucasians will be of great value."

The above are extracts from the book, "Value of Different races of Bees," by Dr. A. Pollman, Leipsig, 188 9; Hugo Voigt, Leips ig.

There are no more Caucasian queens offered today in the bee journals or catalogues in Germany. They seem to be forgotten, although in 1889 the papers were full of them. The principal races offered in Germany today are the common German black bee, the Italian and the Carniolan. The Italian and Carniolan queens seem to be at the head of everything and liked the best.

The book mentioned above contains opinions of the best known apiarists of Germany and is of great interest, especially as it gives the opinion of each

had or seen before. The tendency to Baron von Rothschutz and Dr. Pollman. Visalia, Calif., May, 1906.

#### HOME MARKETING.

(Canadian Bee Journal.)

HAVE LATELY noticed a few articles in The Bee Journal relating to the mistake of shipping too much honey to large cities and leaving the rural districts without or short of supply. The same is my opinion exactly. Bee-keepers could very well work up a much larger home trade if they would only give it their attention. Here is my experience; twelve years ago it took me a longer time to sell 500 to 1,000 lbs., than it takes me now to dispose of my present crops of 6,000 or 7,000 lbs. right around home. Many families commenced with buying a 5 or 10 lb., can, now they take from 20 to 100 lbs., and even more in a year. To grocers I sell maybe three times as much as before and the result of it is that parties buying in the grocery store will come to me and say, "I have bought now and again a can of honey with your label at the store, and want a larger quantity. I find that it is cheaper than preserves, and we like it." Again, I have different applications from the Northwest from parties before living here having used my honey. I sent some to one and he said he could sell a carload of it if he had it. Those people want their honey direct from the bee-keepers and not from Toronto.

I do not peddle as a rule. I only spent one day last winter and one day four years ago to introduce my honey a little apiarist on each race, separately. The among outside farmers, and with the following races were tried in Germany best of results. To most of my farmer and are described in this book: The customers my price was 7 to 9c a pound German black or Nordish bee, the net, according to quality. My honey Heath, Italian, Egyptian, Carniolan, not up to the best in flavor and color I Madagascar, Cyprian and the Caucas- sell as No. 2, and so have never had ian. The following well known men complaints. Buckwheat I am selling are the principal contributors: Von for 5c, but there is no demand for that Berlepsch, G. Dahte, Dr. Dzierzon, G. here, because until recently there has Kleine, Fr. W. Vogel, Fr. O. Rothe, been no buckwheat in this district, and commenced to raise it with success; seems to us less objectionable and sells likely there will be more of it in future. more readily locally in its granulated

table or manufacturing? Would like to 60-lb cans or barrels and slice it with a have some information about it in the knife. Here is a recipe for buckwheat Bee Journal.

JACOB HABERER.

Huron County, Ont.

manufacturing purposes by confection- tablespoon ginger, one teaspoon cinnaers and tobacconists, and it usually mon together to a light cream. Put on finds a ready market, generally at a the back of the range until warm (not low price, but seldom at less than what hot); then add one cup sour or sweet you have been selling yours for. Some milk, two well beaten eggs, one teapeople like it for table use, and we have spoon soda, four cups of flour. Bake at sold tons of it for this purpose, but it once.-Ed. C. B. J.

it is only two years ago since farmers is not likely to become a favorite. It What is this honey mostly used for, form. Grocers in our city strip off the honey ginger bread that we like in our house that you might try:

Stir one cup buckwheat honey, one [Buckwheat honey is used largely for cup butter, ½ cup brown sugar, one

### Pollen-Clogged Combs.

### They are Resoonsible for the Loss of Honey Crop. Some Remedies Suggested.

#### ALLEN LATHAM.

fearing lest the queen be deprived of good crop of honey. cells wherein to lay her eggs. To offset our anxiety has come the reassuring vicinity, brought into the hives a vast note, from those who should know, that quantity of pollen. our worry is for naught; for, say those bloom, but yielding poorly of honey, optimists, bees use an immense amount just enough to keep the bees busy tryof pollen and will soon clear the combs. ing to get it. Under such conditions,

eventually his just reward.

I freely concede that the brood-nest, though packed with pollen, is generally ticular, some of which had cast prime queen, in a remarkably short time, but had been deprived of their queen and in bee-keeping a remarkably-short-time given ripe cells from the others. All

THERE ARE FEW bee-keepers who ence of the pollen in those brood combs, have not viewed with anxiety the if there at certain periods, may be the crowding of the brood-nest with pollen, wall between no crop of honey and a

The early days of last June, in this Clover was in full The bearer of bad news is seldom as everyone knows, a big load of pollen granted a hearty welcome; and, when I goes with every small load of nectar. announce that pollen may become a Brood-combs, and in many cases secserious obstacle in the way of securing tions, became heavy with pollen. Optia good crop of honey, I doubt if the mistic to the last I looked for the speedy announcement will please. Still, he who disappearance of the surplus pollen; but points out an error and helps to miti- in vain, for the field conditions remained gate an evil in so doing is sure to get the same and the pollen continued to come in as fast as it was consumed.

I took note of several colonies in parfreed, under the influence of a vigorous swarms in May, and others of which is often all the time there is. The pres- were without laying queens the last ten days in May and for a few days in filled with pollen.

len, these vigorous queens, all from my ly, to believe that excess of pollen was best stock, would have supplied thirty the only cause. to forty thousand cells with eggs before the 25th of June; but, as it was, the brood-nests were not well stocked developed that a queen dislikes to begin pollen. I observed in more than one then, is the remedy for this evil? case that the brood-nest, instead of befairly well with sealed brood, while the pollen reaches them. adjoining comb would have no brood at come a serious nuisance in the brood- remedies. nest.

20th, the maximum flow occurring on trial, appeals to my fancy. I will offer the 17th. The flow was from sumach, it, knowing that it may fail utterly rhus glabra, and as usual came and when brought to the test, but feeling went quickly. above had not had their numbers rein- with it would mean so much. forced by 40,000 bees, as might have been the case, and so stored only about excluding zinc is over the hive-entrance, 20 lbs. of surplus; while other colonies bees frequently lose their pollen-pellets which had had laying queens during the while passing through the narrow pollen-gathering time, yielded from 50 openings. Especially is there much polto 75 lbs. each. It seems more than len lost if the zinc be put on with the probable that the presence of the sur- openings running vertically; and it has plus pollen in those combs cut down my been suggested to me that entrance honey crop thirty pounds for every col- guards thus placed would help materony thus affected. The shortage of the ially in keeping out pollen. Unfortuncrop was due to the shortage of bees; ately, the vertically placed zinc will the shortage of bees was due to the never keep out even one-half the pollen, failure to breed heavily when breeding for when the worker passes the guard breed was due to pollen-clogged combs. pellet is scraped off and frequently not

One might urge that other causes June, during the very time, in fact, could account for the slow-breeding; when pollen was coming in most freely. but, since throughout June there was a When those young queens started in to dribbling honey-flow sufficient for strong lay, early in June, there was scarcely a colonies to store slowly in the sections, brood-comb which was not 75 per cent I can see no reason for cessation or lessening of brood-rearing. Had these combs been free from pol- forced, having watched the combs close-

It follows, therefore, that, though excess of pollen may not permanently injure a colony nor at times interfere till nearly the 10th of July. The fact with a honey-harvest, it unquestionably does at certain times serve to diminish laying in a comb badly sprinkled with one's harvest very seriously. What,

Obviously the remedies are two in ing a unit was made up of different number; either we must prevent the centres of broad here and there; in some pollen from gaining access to the combs instances a comb would occur filled or we must remove the combs after the

If one has a large number of extra all, but two or three combs farther on combs so that he can remove pollenwould occur a patch of young brood and clogged combs and replace with empty eggs. It was a condition of affairs ones, such a plan might work; but it most displeasing to watch and it con- has serious objections, and I would vinced me forever that pollen can be- therefore dismiss the second of the two

The first-mentioned remedy, though The harvest came in July, 12th to I have never as yet put it to thorough The colonies mentioned that it is worth trying since success

We have all seen how, when gueen was most necessary; and that failure to she turns sidewise and only the lower

making them by punching with a die of your gentle forbearance. the right size, being careful to punch the holes all one way. I shall put the compatible." zinc on with the burr-edge out so that getting through.

Such zinc would doubtless prove too are "compatibles." much of an obstruction under ordinary conditions, but since excess pollen-gathis poor, the loss should not be much. place a Porter bee-escape leading outwards so that drones could leave the Whether they ever got back would in most instances be immaterial.

with such guards would get ill-tempered, and that work in the apiary and the worker population became put up with some inconveniences.

I hope that others will experiment in connection with this matter of pollenclogged combs, and report their successes (and failures). pleased to have satisfactory proof that pollen, contrary to my present belief, is never a menace in the brood-nest.

Norwich, Conn.

#### MYSTERIES OF THE HIVE.

#### Dudley B. Truman.

To deal with those remote and peculiar "Florida Queen" works along a certain

even that one. The opening must be functions performed by bees, which are such that, no matter what the position outside our ordinary ken, results in an of the worker, the edges will surely be appearance of speculative and fantasbrought to bear upon the pollen-pellets. tic reasoning. Hence, for what I am Next spring I shall experiment with about to say, I ask your kindly indulexcluders having circular openings, gence and in case you disagree with me,

First, let me explain the word, "In-

Suppose we mix together sugar and incoming bees will drag their posterior milk and tea. You know of course that limbs across a ragged edge of zinc. It no marked change is produced in any would seem as if all large pellets must of these materials. If our taste is fine be lost, only the small compact ones enough we can recognize each of these. In other words, the three constituents

If, however, we mix, let us say, whisky and sulphuric acid, we do not ering takes place when the honey-flow get a mixture having either the properties of the acid or the whisky, but More than that the presence of the zinc one having the name of "fusil oil," a would be required only a few days in material as harmful to a typhoid fever most cases. It would be desirable to patient as the original substances are beneficial.

> This is what in medicine we call an "Incompatible."

Now, the first mystery I would draw It is quite probable, too, that colonies your attention to, is that bees never produce an incompatible.

This is a very wonderful thing. If would become less pleasant; but if at we mix certain scents, -let us say the same time the pollen was kept out essence of clover and essence of orange flower,-we do not obtain an agreeable thereby doubled one could complacently mixture, but an odor that is like horse dung, an incompatible.

> Yet the bees do not get such a result -at least not normally.

One way in which bees avoid it is by I should be limiting their food area. If you Italianize one colony of a black apiary, you will be able to watch what plants it gathers from, and you will very likely find that at any given season of the year it works mainly upon one species of flower. Thus, the coral flower on my veranda here is mainly worked upon by one of Swarthmores golden-all-overs; OFTEN REQUIRES a certain other bees rarely touch it. One of my amount of pluck to speak of the black colonies chiefly works upon cocoafiner or more subtle side of bee-keeping. nut blossoms, while my neighbor's drinks," if I may be allowed the term. used for "making bees stay."

But the mystery does not end here. with their different scents. Indeed, they will take a tropical honey from Cuba and feed it to a clover gathering colony, or mix honey of four or five seldom if ever produce an incompatible.

It seems therefore that there is some special chemical action, or chemical reagent in honey that prevents this awkward result; and if so, it may be possible that we have in our bee-products a substance more valuable even, than honey itself.

mystery of Lubbock's sixth sense. Lubbock, by a series of experiments with prismatic lights established the fact-a fact that seems to have been overlooked-that bees were sensitive to ultraviolet chemical rays. That is to say, bees can see chemical action.

If bees were inside a camera, they could see a sensative plate reacting to a perfect palace of electric light. its picture, they could see formic acid and salt combining and they could see the chemical action of a microbe, such as that of foul-brood.

What exactly is the use of this function, of course we cannot say. But one can well imagine that it might materially assist them in avoiding disease, and perhaps also in the chemical processes involved in the so called "ripening" of honey. It is certain that bees heather. Taking as an example a hive changes going on inside it.

to point out that the bees are conscious most of the frames withdrawn would of the presence of a queen-larva in a be a solid mass of sealed and nearly sealed cell, know whether it is alive hatching brood. Those less occupied or dead, and can distinguish it from a would be left to give some work for larva in an ordinary cell.

plant in the hedgerows. Thus bees to hiving a queenless swarm upon a single a certain extent avoid "mixing their sealed queen-cell, a method that I have

It seems to me that in this case the Bee-keepers freely mix these honeys bees must obtain their knowledge of the queen-grub inside by one of two methods. Either they must be able to hear the larva, which, when it is at this stage, argues a highly microscopic essences in a honey extractor, and yet sense of hearing; or else they must be able to see through the capping by means of some ray that, unlike chemical rays, passes through opaque substances.

Of these, the former hypothesis seems the more profitable. case, their hearing power must not only be sensitive to this minute sound, but Let us turn to another mystery—the be able to distinguish it from that made by the larva of a drone or worker; for, as you know, sealed workers have exactly the opposite result-that of making the bees desert.

> Just one word more, for I cannot resist it. Picture to yourself the hive as it appears to the bees. Thousands of cells, each ablaze with chemical rays-

Nassau, Bahama Islands.

#### OVER CONTRACTION.

(D. M. M. In Irish Bee Journal) WHEN THE swarming season is about over, if working with a large number of frames, it generally pays to contract the brood area when working for a late flow such as the must be able to distinguished between with twelve or fifteen frames all well a dead egg and a living one, and we covered with bees, I would confine can see that this would be an easy task them to nine or ten with the object of if they could see the chemical nutritive securing the main flow to the supers. The contraction, if judiciously done, In this connection it may be as well may help another colony along, because the queen, and, if they are pretty well This point is beautifully proved by stored with honey, this would be very for natural swarms was past.

crammed with brood in all stages, six frames. stores are carried down from above, Often, too, the bees, having no clear further consideration. space for extra pollen, carry it aloft, and thereby spoil the sections. This was particularly noticable in sections worked behind a queen excluder in hives of the combination type, so that the practice has about fallen into disworked over shallow brood bodies. The comb is so packed with eggs, brood or a wrapping and young bees, that there is no space of cloth or pafor a store cupboard, and both honey per. Recently and pollen have perforce to be consigned a local conabove.

The same danger or dangers become Fastener Co., manifest where over contraction takes has gotten out place with even ordinary queens who a very neat lay only fairly well; and, if so, then and convenhow much more with our best queens, ient device for the purpose and also who could more than double the amount adapted for winter protection of the

quickly carried aloft to supers, thus of ovipositing possible in the very limhelping the supers. The queen, ob- ited space given. We do the stock a taining room in this way, would pre- serious injury by hindering this egg yent either herself or the workers from laying, and thus lessening the popupreparing for swarming until the period lation of the hive at a critical period, when this extra increase would be the Over contraction, however, should be salvation of the colony. But, too, we carefully avoided, because, even at a do the queen mother injury by thus late date in August, over congestion cramping her powers at the very period may lead to queen cells being con- when nature decrees that she should be structed. Further, with very warm most prolific. The little extra honey weather and a meagre super space, the secured at the time is therefore dearly bees lie out in front of the entrance bought by the ill effects left, perhaps and loiter or sulk even with a flow on, permanently, on the stock of bees. If while the small space given the queen the reasoning given above is correct, practically ends her laying powers, or and I maintain, as the fruits of experichecks her ovipositing to such an ex- ence, that I have proved it to be so, tent that the colony goes into winter then I would say that at no time should quarters short of young and lusty bees, a strong stock be confined during the which are the mainstay of the com- gathering or breeding period (or indeed munity in early spring when building at any other time) on less than nine up begins. Another danger is that the standard frames. Of course I don't queen, cramped for room, may ascend include nucleus lots, second swarms or and spoil sections by laying eggs, casts, driven bees, or late swarms. All especially where she finds any of drone of these may be safely and profitably cell formation. The brood body being kept and wintered successfully on, say,

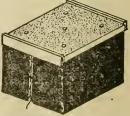
Too many frames in the brood body and the extra traffic gives a travel- in the height of the season is also a stained appearance to the sections serious mistake which often leads to which no comb honey should possess. loss of profit, but this must await

#### HIVE PROTECTION.

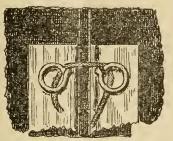
#### A. C. Miller.

T HAS LONG been the writer's practice to protect the supers during the The same occurs in sections honey flow. This has been done in various ways, sometimes by an outer case

cern the Pratt



plan of a black wrapping. The device it is as readily released. The illustra-consists of a heavy grade of enameled tion will make it clear.



SECTION OF WRAPPER SHOWING FASTENER, FULL SIZE

black side being for winter use and the white side for summer. A piece of string serves to fasten the wrapper in place. It takes but an instant to put on or take off the wrapper, the string being caught by the little ring clips

brood nest on the writer's well known merely by pulling it against them and

carriage cloth bound at each end with In parts of our country cool nights are metal and the metal strips bearing a often experienced during the honey unique fastener. One surface of the flow and unless the supers are proteccloth is black, the other white, the ted in some manner the bees leave them and draw into the brood chamber. On the other hand the sun often so heats the unprotected hive during part of the day that it is impossible for the bees to continue work therein. It is apparently to the bee-keeper's interest to protect his hives from the extremes of heat and cold. Even when known, such practice is often neglected, either for lack of a convenient method or on account of cost. The device above described is cheap, convenient and efficient. The manufacturers inform me that they will mail a sample wrapper post paid for 35 cents; the price in quantity being 25 cents, express or freight to be paid by the purchaser. The address is Pratt Fastener Co., Providence, R. I., or send to your local supply dealer.



#### GERMANY.

WILL NOT "WALK THE CHALK."

ful keeping their hives free from ants. Editor Reidenbach says that powdered miss of obtaining a crop. chalk has been effective with him.

#### SOUND ADVICE.

of each of the two classes had necessarily to be very different. Freudenstein says it is all wrong to Bee-keepers are not always success- divide a yard, but advises to run all colonies for honey as much as possible. Liberal applications of salt or sulphur There will be more increase then than have driven them away from our hives. is desirable, and we may not make a

#### RECENT PATENTS.

An improved wax extractor by F. It has been customary among bee- Steigel, an implement for rendering keepers in Germany to devote a part of comb into wax by E. Junghans, and a their colonies to honey production, the smoker by G. Heidenrich, have recently other to increase. The management been patented. The wax rendering machine is provided with an easily remov- popular among bee-keepers in Germany. to come up-Neue Bztg.

#### ADVANCE OF SCIENCE.

Aristoteles, father of natural history, taught that wax was gathered by the bees from plants. This was believed till the seventeenth century, when it was discovered by Martin John, a physician in Frieberg, Germany, that the wax was secreted in shape of tiny scales on the underside of the bees abdomen. This discovery was confirmed later by Rev. Hoonbastel, of Hamburg, Thorley, of England and Huber, Switzerland.—Leipz Bztg.

#### OBSERVATION MAY CHANGE HIS MIND.

P. Neuman thinks that Prof. A. J. Cook, having reported in the American Bee Journal that Germany's bee-keepers are behind the times and that they need a Langstroth to lead them out of darkness into light, may change his mind after he has had occasion to visit the bee-masters in Germany, as planned by the professor.—Leipz Bztg.

#### MUST HAVE DONE SOME COUNTING.

The past winter has been as favorable for the bees in Germany as it has been in the Northern states of America. Ludwig reports in the Deutsch Bzcht. that his 68 colonies came out o. k. Their winter supply of honey was supplemented by feeding ten pounds of sugar syrup to each colony in the fall. Thus very little honey was consumed during the cold season and consequently but little brood was reared. On an average each colony consumed about ten pounds and lost 587 bees between October 26 and March 6.

#### THE UNCAPPING FORK.

The April number of Deutsch Bzcht. an uncapping fork, which seems to be house. -L'Apiculteur.

able double screen which holds the The implement is about three inches slumgum down and allows the the wax wide, the tines about one and a half inches long. It seems to me that a beveled honey knife would work very much faster, but I have not tried the

#### IMBEDDING WIRE.

To imbed the wires into comb foundation the bee-keeper in Germany seems to consider it important to use heated wire-imbedders. The implement Gerstung illustrates in his bee journal has the little wheel fastened to a heavy piece of metal. This, when heated over a lamp or otherwise, holds the heat long enough to keep the wheel at the proper temperature to imbed three wires before it will become necessary to reheat.

#### AUSTRIA.

#### WOULD NOT BE HEAVY IN AMERICA.

In the year 1775 bee-keepers were granted freedom from taxes by the emperor of Austria. Of late years a tax has been levied upon the bee-keepers, which was objected to by them. It has been decided now that bee-keepers are subject to the income-tax the same as men following other kinds of business.

#### RUSSIA.

DON'T REPEAT THE NAME, PLEASE.

A new bi-monthly bee periodical is being issued by M. E. Durnoff Moscow. Its name is said to "Ptschelovodnaia Zschisn" and treats principally the methods as practiced in America. - Bienen-Vater.

#### FRANCE.

CALLS COMB HONEY "BEESWAX."

Under a vigorous protest by the imbrings an illustration of the process of porters, comb honey has been regarded uncapping sealed combs by means of as "wax" by the Parisian custom

#### AUSTRALIA.

(From Australia Bee Bulletin.) QUEEN MATING.

Mr. Pender, a queen breeder of Australia claims that the drones from an

apiary situated one mile away seldom mate with his queens, but he keeps plenty of drones in his apiaries, other-

wise the result might be different.

The queens are mated in a separate yard. That vard contains the necesit is done in the yard where the queen around the hives. cells are raised, the young queens returning from their trip occasionally go in one of the hives instead of their nucleus and destroy the cells or give trouble. He carries the nearly matured cells from the main yard to the mating yard, and says that if it is carefully done the transportation will not injure the cell, that is, the queen within the cell.

#### CONTROLLING SWARMING.

Mr. Bolton uses the Heddon hive. Two or three weeks before swarming time he goes over the apiary to apportion to each colony the right number of hive sections which its strength calls for, and any colony having two sections has the upper one inverted, thus securing the abandonment of any queen cells that may have been started. That means no swarming for nine days. On the ninth day another visit is made. The colonies have their upper sections inverted again, except those where the cells are sealed or nearly ready to seal. These are swarmed artificially by shaking the bees in front of a single hivesection, furnished with starters, on the For seven lies it takes to keep in counold stand, and are giving their own super over an excluder.

The two stories of broad removed are added to weaker colonies. The same process is repeated every nine days as long as necessary. When all the col-

onies have been built up; the brood removed is used for increase, or put on top of the artificial swarms.

#### "EVAPORATED" BEES.

Mr. Fackender's apiary is situated five or six miles from a smelting works. Occasionally the fumes from these works reach his apiary and cause a considerable mortality among his bees.

#### GETTING RID OF ANTS.

Mr. F. Halloran had considerable sary nuclei and five colonies furnish the trouble with a kind of small black ant. drones. The reason for having the The best plan to keep them away was mating done in another yard is that if found to be simply putting wood ashes

#### HUNGARY

#### QUEEN VS. LAYING WORKERS.

A correspondent gives the following process to introduce a queen in a colony having laying workers. Behead all the drone brood, smoke the colony thoroughly, take a laying queen from another colony, give her a few puffs of smoke and let her run down on the center combs.-The Magyar' Meh.

#### HUGARIAN BEES.

The Banater or Hungarian bees, says Baron Bela Amboozy are an intermediate between the Italian and Carniolian in swarming proclivities, brood-rearing and disposition to crowd the honey into the brood nest. They are much inclined to rob, and to fly after nectar in bad weather, when numbers thus perish. The color is gray, with yellowish abdominal rings and down. - Magyar' Meh.

tenance one." -Ruckert.

<sup>&</sup>quot;He who lies once, a course of falsehood has begun,

<sup>&</sup>quot;Perfection is an end that mocks approach indeed,

But one that must be sought by struggling not by speed." -Ruckert.

THE

#### AMERICAN BEE-KEEPER

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An early text book on bee culture was much self lauded, passed through many editions, contained quite as much error as truth and has been buried in oblivion. Does history repeat itself?

of commission.

Writing from Buffalo, N. Y., a subscriber says: "There is certainly some excellent matter in the May issue of THE BEE-KEEPER, as there is also in April and March numbers. In fact, of all the bee papers of my acquaintance, in point of interesting and instructive articles, the AMERICAN BEE-KEEPER is by no means second to any. I feel quite sure that I voice the sentiments of many fellow bee-keepers when I thank Mr. Allen Latham for his excellent article on 'Mouldy Combs in Spring,' as well as when I express my appreciation of the article by Mr. Geo. W. Adams, 'Farm Bee-Keepers,' in the May issue."

We are informed that Dr. E. F. Phillips of the U. S. Dept., of Agriculture has been assiduously cultivating the acquaintance of the honey producers on their native heath, which is to say in their homes and conventions, in order that he might learn at first hand their needs and the difficulties they encounter, to the end that he may intelligently aid them. In an aside way we may remark that the acquaintances thus formed oft proved a mutual surprise.

A gratifying evidence of the good fellowship and brotherhood existing among honey producers is given by the spread of the knowledge of the "Independent" movement among persons who are not readers of the AMERICAN BEE-KEEPER, those who do read it taking pains to pass the information along.

An interesting manuscript of 1670 describes forced swarming, swarms on old stands and giving brood to weak colonies. And yet some of our contemporaries a short time ago hailed the practices as quite modern.

Spread the news of the twenty per There are sins of omission as well as cent discounts and get your local society to follow the lead of New York,

#### Destruction Threatened.

There is sometimes a ludicrous side to very grave questions. None, prehaps, more so than the attitude of the lone individual who periodically bobs up with a threat to wreck an established publication by "stopping his paper," because he disapproves of some utterance of an otherwise satisfactory iournal.

Since The Bee-Keeper discovered the truth in regard to the history of manufactured comb, it has received just three protests against publishing the truth. One from Pennsylvania. one from Illinois and one from Texas. Two of these seek to wreak their vengence and wreck THE BEE-KEEPER by of, approximately, ten thousand readers the disapproval of two or three does North, but comes very near it. not indicate a very alarming state of affiairs.

bee journal in the United States has clover honey. achieved a greater success during the KEEPER. our encouragement and success. We the inexperienced. have absolutely no reason to anticipate a reversal of our past and present proage, of course, are essential; and we extending the circulation of the paper. We do not, however, ask, nor desire that anyone who feels that we are doing nothing but injury to himself and the season report a crop of honey from cause of apiculture to patronize us for orange blossom. This office, however, a single day. We shall continue, as has failed to receive the promised samheretofore, to grow and prosper.

really care to see just how badly they would be missed from the ranks of the progressive, and "whole truth" aggregation of our readers, let them wade out into the nearest mill-pond and stab the surface of the waters with a darning needle, then withdraw it and look for the hole. No, there's no hole-just a slight ripple for the passing instant.

#### How to Get Rich This Summer.

Mr. A. I. Root, of Ohio, has been spending the winter in Florida, and in a recent number of his journal. Gleanings, he tells his readers that orange blossom honey is stored quite extensively in some parts of the state. He threats of stopping their paper. Out thinks the quality is hardly equal to the best white clover honey of the thinks, however, that in some of the big cities, if prospective customers The only guiding rule in the manage- were given a taste of the goods first, ment of a journal of this kind is the one might sell it at 50 cents a pound. judgment of its editors. If this rule According to Mr. Root's estimate of is unreliable, the fault will soon be in-quality, our northern friends should be dicated by a corresponding failure of able to realize something more than a the enterprise. It is doubtful if any half-dollar per pound for their white

The possibilities of bee-keeping, same number of years than now stands based upon this estimate, should be to the credit of the AMERICAN BEE- encouraging enough to stimulate a Each passing year adds to very active interest in the pursuit by

Ninety-seven in the shade, no rain gress. Continued and increased patron- for nearly two months and everything dried up, is the report of a Buenos are being favored with exactly this Ayres, correspondent in the Irish Bee condition of affairs constantly, and we Journal, dated Feb. 27. Such conditions earnestly solicit the assistance of every are ideal for curing and handling honey; independent, progressive bee-keeper in but not so favorable to the secretion of nectar.

Quite a number of bee-keepers this ples; and we have never yet seen a If these threatening individuals would barrel of "orange honey."

#### Studying With Profit.

isn't it? But not so easy as it sounds. Prejudice, conviction, settled belief, all unite to prevent a clear or fresh It is difficult for view of old subjects. most of us to grasp the other fellow's point of view, but it is worth much effort to achieve. One good method of getting value from reviews is to select one subject and follow it backwards sticking carefully to that subject and not being diverted by other interesting articles which may fall under one's eye. After all has been read try to sort out in your mind the vital points, classify them and then see if you can form a theory satisfactory to yourself which explains the results achieved under practices considered. So far all is comparitively easy and not much beyond the schoolboy sort of annalysis.

Now comes the real delight to the diligent worker, be he in for money or for pleasure. With the bees' habits clear in your mind try to think of some other way to accomplish the same ends. Try the Chinese Way, backwards, the opposite of our own, the seemingly absurd, it may serve to show a simple solution to a previously obscure problem. It is very difficult to break away from custom, particularly of thought. Trying to put our acts in an absurd light, or considering the opposite of the seemingly correct and rational way is often the quickest and surest way to progress.

#### What is "The Best"?

To a reader of current bee literature nothing can be more self evident than the fact that merit, with reference to apiarian appliances, is very largely a matter of personal taste or personal preference. Any specific device or system may appeal to one or a few persons, as possessing exceptional merit; and in their hands may, in fact, prove of inestimable value, while to the ma-

jority it may appear unworthy of a "Ponder on what you read." Simple test; and if tested, may prove wholly ineffectual.

> The disinclination of others to adopt or admire our pet hobbies does not necessarily imply lack of shrewdness, nor dullness of conception; but simply reiterates the established fact that men are different in tastes, temperament, ambition and in modes of achieving their respective purposes.

That is best which best suits ourselves.

#### Caucasians Still a Live Subject.

Mr. A. I. Root, who has spent four months of the past winter in Florida. has been experimenting with a colony of Caucasian bees, and is very favorably impressed by his brief experience with them. As in other instances, however, "gentleness" is the captivating attribute.

In the American Bee Journal, Mr. Henry Alley discusses races, and, assuming that the United States government could have no pernicious motive in recommending these bees, thinks they must be good, and advises those who want these bees to try them for themselves. The advise is good if "those who want these bees" are in a position to thoroughly control swarms and Acknowledging with all freedrones. dom that the department of agriculture is working for the welfare of bee culture, according to the best judgement of the department, The Bee-Keeper would supplement Mr. Alley's advice with a word of earnest caution.

It is indeed noteworthy, in connection with the remarkable excellence of this race, as seen by a few limited experimenters at this time, that the Caucasian has so utterly failed establish itself in general favor even though it has been a candidate for thirty years.

The attention of the reader is respectfully invited to the situation existing in Germany, as presented in this number by Mr. Otto Luhdoff,

#### Cuban Apiculture.

"LaRepublica de Cuba" is coming to the front in true American style, with its experiment stations and farmer's bulletins. A profusely illustrated bulletin issued in November last, entitled "Apiculture in Cuba." published in Spanish, is a most interesting paper.

The first bees were introduced into Cuba from Florida in 1774, and were the black German race. In 1902—four years after the war—the number of colonies there was estimated at 82,000, 80 per cent of which were in hollow logs.

logs.

The Cuban government has caught the Caucasian fever from our own agricultural department at Washington and is hopeful of great things in the

future.

The editor of THE BEE-KEEPER was a pioneer in modern apiculture in Cuba, having established an Italian apiary on the south coast some twenty years ago and he has since constantly watched with intense interest the aparian developments of this most lovely and productive island.

Suburban Life, for May, has for its leading article, "Possibilities of Modern Bee-Keeping," by W. Z. Hutchinson. The article is of a descriptive and historical nature and will doubtless prove interesting to the public. Several excellent photographic illustrations, by the author, are given. "W. Z" is an expert photographer, an entertaining writer and a good apiarist, but one of the illustrations mentioned, wherein is shown Mr. Hutchinson himself in the act of uncapping a frame of honey for the extractor, leads us to surmise that there are "slicker people" with the uncapping knife. He has begun his work at the wrong end-starting at the top-and is apparently pushing the capping off, instead of using the regulation two-stroke method, from bottom to top and return. And the appearance of the work behind the knife would indicate that he is contending with thick

honey, a dry knife with a wire-edge and a burden of time upon his hands.

#### Artificial Honeycomb.

Recent issues of the British Bee Journal, of London, contain very flashy half-page advertisements of "Smith's Patent Machine-made Honeycomb." Sample pound is supplied in shallow-frame or section-square sizes at three shillings, delivered. Such a radical departure from the established order of things may cause some of the brethren to rise in holy horror, but such a commodity may prove helpful in facilitating the work of producers in taking care of nectar-flows that would otherwise be wasted upon the desert air.

It is an experiment that will be watched with much interest. Its fragile, bulky nature is rather against its shipping qualities, it would appear, as compared with foundation.

Indirectly, though other publications, we learn of the death of Mr. R. B. Leahy, editor of the Progressive Bee-Keeper, Higginsville, Mo. No particulars are mentioned, other than that the "Progressive" has been sold to a poultry publisher in Kansas and that it will be consolidated with a periodical called "The Helpful Hen."

The March number of the Australasian Bee-Keeper, West Maitland, New South Wales, reproduces four entire articles from our January issue. Bro. Pender's excellent taste and judgement in the selection of interesting material for his readers, has long been observed, and is doubtless responsible for the marked success of his journal.

When philanthropic publishers insist on serving your interests, by asking you to merely "pay the postage" on their bee journal, bear in mind that 25 cents pays the postage on exactly 25 pounds of such matter. The crop of pure and wholesome philanthropy seems to be exceptionally heavy in some quarters this season.

Mr. James Heddon, the inventor, apiarist, author and ex-editor, is an expert angler. The fact is, much of his old-time enthusiasm in regard to bees and apiarian matters in general, has been superseded; by a no less strenuous interest in fishing-especially in catching the bass. When he was in Florida, a year or two ago, the editor's camera caught the veteran apiarist, with his son, W. T. Heddon, in pursuit of pleasure at their favorite pastime. A small reproduction of the scene is presented in this number of THE BEE-KEEPER. The picture will be of interest to the older bee-keepers who have followed Mr. Heddon's writings in years gone by.



MR. HEDDON AND SON IN FLORIDA.

#### HONEY AND BEESWAX MARKET.

New York, May 12—The supply of honey is sufficient to meet demand. The demand is fair for extracted. We quote our market today as follows: Comb, 9 to 15c; as to quality, Extracted, 4<sup>1</sup>2 to 6½. Beeswax 30 to 31c, Hildreth & Segelken. Extracted, 412 to

is small. The demand is good, We quote our market to day as follows: Comb, 3.25 for white to 2.75 for amber. Extracted, 5½ to 6c. Beeswax, 25. Very little honey here, Looks now as if new honey would sell well. C. C. Clemons & Co.

Boston, March 22.—Our market is practically cleaned up of 1905 crop comb honey, leaving a fair stock of old honey still on han, which ought to sell well now that the new is out of the way. The market on best grades fancy white, 16 to 7 c, with very little to offer Extracted, from 6 to 7 c according to quality.

Blake, Scott & Lee Co.

Chicago, April 20.—There is very little comb honey on the market and as usual at this season of the year the demand is very limited. There is no chang in the prices obtained from recent quotations Choice white comb will bring 15c when wanted; choice white comb win bring lee when wanted; other grades are of uncertain value, ranging from 10c to 14c per lb, Choice white extracted 6½ to 7c amber grades 5½ to 6½ c. Beeswax 30c per lb, R. A. Burnett & Co.

Boston and Worchester, April 10.—Fancy No. 1 grades comb honey wholesale for 13c to 17c, No. 2 at 14c. Stock is cleaning up better than last year. Demand is excellent. There have been no full cars sent to Boston this year because so much was carried over from the appendix screen. carried over from the previous season,
W. H. Blodget & Co.

Buffalo, May 15—The supply of honey is very light and mostly old and slow sale at low prices. The demand is very poor unless very fancy. We quoie our market to day as follows: Comb, fancy 13 to 14c; Poor etc., 5 to 10c. Extracted, light supply 6 to 8c. Cannot advice sending honey at all now as berries are taking its place and very little business. Batterson & Co.

Cincinnati, May 8.—The conditions of the market, at the present time, are not encouraging. Honey is offered from all sides, at prices, utterly Honey is offered from all sides, at prices, utterly regardless of the value of the article. At the same time, all indications point to an unusually good honey crop, which adds in making it a drag on the market. Offer amber extracted honey in barrels at 5 to 6½ e. Fancy white in crates of 260-lb., cans at 6½ to 8½c. We are paying 30c per lb delivered here for choice, yellow beeswax.

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son of 1906.

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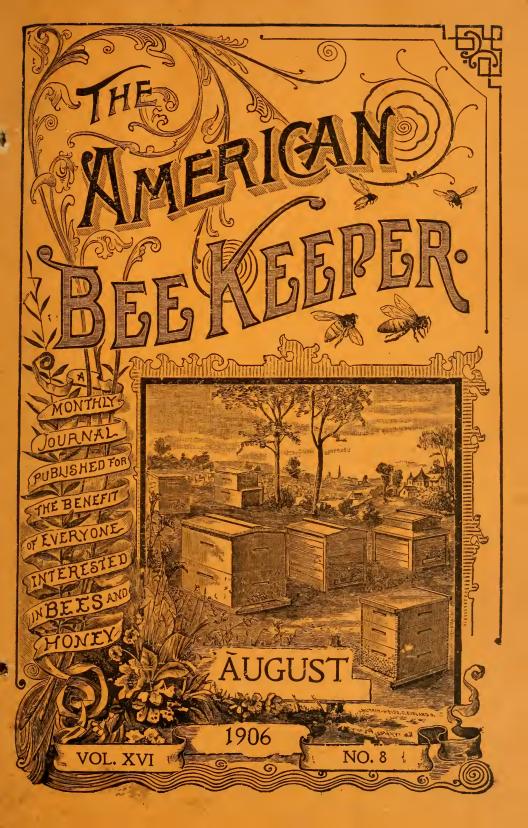
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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

AUGUST, 1906.

No. 8

# New Jersey "In the Swim."

State Beo-Keepers' Association Falls in Line With New York, Pennsylvania, Connecticut and Others.

THE NEW JERSEY State Bee-keepers' Association convention was held at Jenkintown, Pa., June 26, 1906; President W. W. Case in the chair. The Secretary being absent, J. H. M. Cook was chosen pro tem. After the regular business, report of committees, etc., the following officers were chosen: President, W. W. Case, Baptisttown,

N. J.
Sec-Treasurer, G. N. Wanser, Cranford, N. J.

The three vice-presidents same as last year.

1st. Vice-President, H. N. Van Duyne, Boonton, N. J.

2nd Vice-President, J. H. M. Cook, Caldwell, N. J.

3rd Vice-President, J. D. Craig, New Germantown, N. J.

Committee on programme, time and place of next meeting: W. W. Case and H. S. Ferry.

The following resolutions were read, approved and adopted:

RESOLUTIONS OF THE NEW JERSEY STATE BEE-KEEPERS' ASSOCIATION,

ADOPTED AT THE ANNUAL MEETING, JUNE 26, 1906.

Whereas, It is evident, and has been for some time, that an understanding, combination, or agreement of some kind, or nature, exists for the purpose of advancing and maintaining the price of bee supplies above a necessary and reasonable profit. Therefore

Resolved, That we, members of the New Jersey Bee-keepers' Association, of bee-keepers in convention assembled recommend and urge the members of this organization and all other honey producers not to purchase or use such supplies in part or in whole. Be it further

Resolved, That copies of this resolution be forwarded to the different county associations and as soon as satisfactory arrangements can be made that the members be advised where the supplies can be purchased at a reasonable price, and that this organization advise the use of such exclusively, and

Whereas, Provided such satisfactory arrangements cannot be made, the

Committee on authorized and instructed to take steps Jersey Bee-keepers' Association. necessary for the formation of a stock company, composed of honey producers only, for the manufacture and sale of tion. bee-keepers' supplies.

Whereas, An organization of honey producers should be composed of honey producers exclusively, and work for their interests, and

Whereas, We, the members of the New Jersey State Bee-keepers' Association believe that the National Beekeepers' Association is largely controlled by other interests, be it further

Resolved, That we, the members of the New Jersey State Association of Bee-keepers in annual convention assembled, recommend the formation of a honey producers' organization that will promote and protect our interests in a businesslike manner, free from all entangling alliances.

Whereas, The President of the New York State Bee-keepers' Association informs us that if we, the New Jersey Bee-keepers' Association, are disposed to co-operate with the New York State Association, he would cheerfully aid us as far as in his power.

Resolved, That we, the New Jersey State Bee-keepers' Association in convention assembled, do accept this kind offer, and our secretary be ordered to inform Mr. W. F. Marks (address Clifton Springs, N. Y.) that we appreciate his kind offer and will be very pleased to have him make any suggestions that would aid or assist the New Jersey Association, and we, the New Jersey Bee-keepers' Association will try to work in accord with the New York State Association in a friendly way, and also the Pennsylvania Association has adopted similar resolutions and will were. New Jersey.

York State meeting and see if we can there.

Supplies are hereby procure the same speakers for the New

G. N. WANSER,

Secretary New Jersey State Associa-

#### VACATION BEE-KEEPING.

#### Allen Latham

CEVERAL YEARS ago I happened to pass through a region where a vast bloom of honey-yielding flowers was in evidence, but no bees, that is honey-bees, to be seen. I thought it a pity that so much honey should go to waste, so I put my wits to work to evolve a hive which would capture that honey in part. Suffice to say that I succeeded in getting a hive brought success, and has brought about the result that I own numerous small apiaries each numbering from two to ten colonies in various desirable localities. Some of these apiaries I visit frequently, others I visit but once or twice a year.

The hive, which I shall not describe in detail, has twenty large cross-wise frames. The first eight frames constitute the brood-nest the remaining frames are a store-house for chunk honey.

I pass my summers, much of July and August, at the seashore nearly at the end of Cape Cod. Here the soil is all sand, and one would scarcely think it would be a good honey region. No bees were there, and so I took down a colony, which proved so successful that I now have a score or more there.

On Sunday, July 8th, I rode home with one of the natives near whose house I keep three colonies, thinking that I would peep in and see how they I had not seen the hives even work in harmony with Connecticut and since late last August (1905). Hive number one was packed with bees and Adjourned subject to a call from the honey. There was sealed honey in the Committee, with view of having the 20th frame. That made me feel good, next meeting just following the New for there were about 80 pounds of honey Hive number two also had

lighter and had but few bees. I pulled berry bloom. Usually I am able to cut out a frame, and there was a cell from out a fine lot of goldenrod honey. which a queen had but recently emerged. have cast its prime swarm about June eight colonies last August. day or two before my visit.

Hive number three was about a remove. quarter of a mile away from these two, and had left only about 25 lbs. of honey over a hill, in a sheltered nook from to cut out. No. three had a prolific which it has easy access to many acres queen which had moved back into the of fall flowers. that he had seen few bees about this bees but little honey. Both numbers hive and so I was not surprised to find two and four had young laying queens. that it had been without a queen since Number five was full of brood and late last summer. not accept the queen which I furnished every comb and so there was no nice queen failed them. Enough of the bees 50 lbs. of available honey. The rehive, but no new comb, and no sign of queens from my pet stock. against some robber-bees which had when I opened these hives. discovered their hoard. Many bees their death throes. Soon, however, I noticed that the bees I went to them. ing over the hive. I removed the board each hive loaded with brick. which I had just nailed over the enguards of the hive.

as I expected, it was all honey of this back. As there is at present a fine

worked in the 20th frame, but was year's gathering, mostly from huckle-

The same day and the following I Judging by the brood the colony must went to another apiary where I left 28th, and its second or third swarm a wintered safely. Number one had a drone-layer and there was no honey to Number two had swarmed Farmer S. had said store-house and there was a host of Probably they did honey, but the queen had bred in nearly them at that time and their virgin honey, though there might have been had survived to protect the combs, and maining three were in a cool and there was considerable honey in the well shaded nook and were headed by brood. The small handful of bees were three were a revelation. I wish that apparently putting up a hopeless fight all my friends might have been present

These three colonies were started were about the entrance struggling in last summer. I had shipped by express So I fastened a some driven swarms in boxes. They board over the entrance and started were shut up four days and were in a away. I had not gone four rods when bad condition when I finally hived them a swarm of bees was about my head. on a frame of brood and frames of Quickly getting their direction, which foundation. I scarcely thought they was toward the hive I was just looking would more than pull through the wininto, I rushed back and beyond this. ter, and it was with some anxiety that My anxiety was were distanced and so turned back, and quickly removed when I "hefted" from was delighted to see the swarm hover- the back. My! but one would think

Well, friends, I found in those hives trance, and had the satisfaction of see- great slabs of honey 16½ inches by 11. ing the swarm enter the hive. The Beautiful clear honey of a rich amber queen was a virgin, showing the swarm hue from huckleberry, and rich golden to be a second or third swarm from from clover. Even the 20th frame was number two. The fighting was between loaded. I cut out the honey from all the scouts of the swarm and the old but four or five of the rearmost frames for in these frames there was much The next day I removed the honey unsealed honey, and left the hives with from the first two hives and found that six and seven empty frames between instead of its being fall honey of 1905 the brood nest and the honey in the flow of honey on, I think that those three hives have not told their whole story for this season.

These hives are in the back yard of a house right in the town of Province-town at the extreme end of Cape Cod. They had had no care whatsoever for ten months. I cut out honey to an amount and left honey to an amount, to warrant my believing that those three colonies will yield 350 pounds of honey this season.

The story of the bees in the cottage is very different. My cottage is out in the open, right on the beach "where every stormy wind doth blow," and fog often hides from view everything far and near. I have wintered bees here for five winters, but have never got good yields of honey, though one colony did yield me about 30 pounds one season. They get strong through the summer and then nearly die in the winter. Last fall they got but little honey and three out of the five died. Their death was hastened by the presence of mice which climbed to the piazza roof and entered the hives, there to pass the winter in company with the bees. The two living colonies are fairly strong now and are building up rapidly.

Thus while I am away for the summer with my family at the beach I still make the bees help. The honey finds a ready sale with the summer cottagers there, and the sales help out mightily with the summer expenses.

This rather personal narrative is offered because scattered through it are things of interest, and it may contain suggestions which will help others who know of places where honey abounds, but where there are few bees to get it.

Norwich, Conn.

#### Yes He Do.

How doth the little busy bee Improve each shining hour? He crawls beneath your undershirt And stings with all his power.

#### THE SEASON IN IDAHO.

Swarming Not Held in Check by Trivial
Manipulations— A Drone-Comb
Proposition.

#### E. F. Atwater.

WE HAVE HAD a good flow from alfalfa and other clovers are continuing, so we are trying to "get alive" and keep up with the bees. Hope for a second crop also. Have had 156 lbs. from one hive (non-swarmer); while one colony of one-fourth Carniolan, three-fourths Italian has given 100 lbs. and been robbed of all its brood twice, to prevent swarming. Monday we go to our yard of 140, 36 miles from home, to extract.

The man who expects to prevent swarming by shade, ventilators, room in the comb, or any little manipulation, will GET LEFT in a season like this one. Nor is a forced swarm safe from a second attempt at swarming in such a season. A long time advocate of shaking on starters, I have this season made a failure of it by securing mostly drone-comb, even with queens only a. year old; but how they do stack up the honey! As the forced swarms have been little less than colossal, I wish that A. C. Miller and Allen Latham would study the subject, please, and determine why, in an extra good season, with extra strong, forced swarms —even with queens less than a year old (not of the present season's rearing) so much drone comb is built. The results were equally poor if hived on starters only, below, or if one or more combs of unsealed brood and honey, a la Gill, were used. My assistant thinks that the stronger the swarm, the more drone-comb, but we can't afford weak swarms, and hiving on foundation or comb (we have practiced this extensively this season) results too often in another swarm in less than a month.

Bear in mind that there has not been a day, since willows bloomed in the spring, when bees would rob, while last year it was rob all the time.

Meridian, Idaho, July 7th, 1806.

# Sentimental Side of Bee-Keeping.

Business is Business, and a Money-Making Proposition Should not be Confused With Mere Pastime.

J. M. WEIR.

that has become almost hateful.

In distinct contrast are those voca- under the spell of the bees. tions in which, amid pleasant surroundtemperaments and SO Well and good!

what is the matter with him. Doolittle the drudgery of his contracts he loses

MEN'S OCCUPATIONS naturally says that while engaged at queen reardivide themselves into the un- ing, care and trouble are all forgotten, congenial and the congenial, the tedious and he has found that it is true. The and the amusing. It is unfortunate thousand and one patent fixtures and that they are not more often corres- bee-keepers' jimcracks have found pondingly profitable or unprofitable, as their way to his heart and he would the fancy of those affected might dic- rather putter with them than eat candy. tate. The fact remains, however, that He has known the joy of rendering the mechanical trades and kindred beeswax on his wife's stove and afteroccupations by which a large propor- wards scraping it up from the floor. tion of the population earn a safe and He has the ABC book and six different honest living are inherently distasteful cataloges and he spends his spare time to many who follow them. Strained figuring on the new fixtures he will buy positions, the heat of the sun, or the as soon as he can afford it. He has monotonous repetition of purely me- gotten so that he does not mind the chanical movements, force the most stings very much and joy of joys-he faithful workman to watch the clock has invented a hive of his own, which with longing eyes and welcome knock- he intends to patent next fall. He ing-off time as a release from work knows that next season will be a bumper crop, and in every sense he is

Seriously, is it worth while? He has ings, the attention is engaged, the his fun, it is true, but that will not pay interest is excited, the senses are the grocery bill or buy the baby a new charmed and work becomes delightful. dress. If his is not a good locality Among the latter class bee-keeping common sense would seem to dictate appeals with remarkable force to many that he sell all but about a dozen colmuch has onies and turn his attention to somebeens aid and written on the pleasure thing that will bring returns in dollars of apiculture that it is needless to en- and cents, amusing himself with some large on the subject. In favored local- hobby less expensive to maintain. But ities good yields are secured, the bee- he hardly ever does. The devotion to keeper is well repaid for his time and the bees is often as real and ardent as business and pleasure go hand in hand. his affection for his family. A very good friend of the writer is a skillful Few of us have not seen the less builder and is easily capable of making pleasant picture. A man secures a few three or four thousand dollars during a colonies of bees, has one or two good season. Nevertheless he has several crops of honey and the bee-fever apiaries which receive a large share of straightway claims him for its own. his attention, though operated at a He overstocks his limited field, neglects loss. His explanation is a striking other work, feeds, sweats, cusses and illustration of the introductory parabuse more bees. It is easy to see graph of this article. While busy at keeps the bees as a means of recuper- Mitchel is standing on the right side.

West Palm Beach, Fla., July 6, 1906.

#### MOVING BEES

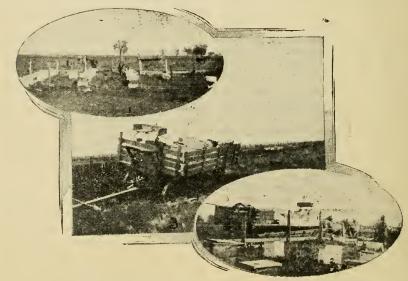
#### Otto Luhdorff

BOUT FOUR weeks ago, George D. Mitchel and E. D. Vest, of Ogden, Utah, bought here some 185 colonies of bees. They moved them to the some interesting

health and strength alarmingly, and ready to be pulled out the field. Mr.

Picture No. 3. The wagon was started, but horses and wagon bogged down only about 100 yards from the apiary. This was the second bog-down. Two horses went down clear to the breast, and two wheels clear to the axles. The apiary can be seen plainly a short distance behind the wagon on the right side.

They had several more bog-downs, orange orchards 20 miles northeast and but considering the circumstances this will ship them soon to Utah. I thought apiary of some 75 colonies was successthere was a good chance for getting fully moved out of the field to the road pictures for the a distance of 1-4 of a mile, within



troubles. So I took my camera and men to accomplish the work. went with the teams early in the morning.

Picture No. 1 represents the plains of Tulare county with one apiary which Mitchel and Vest bought. G.D. Mitchel is on the right, head uncovered. The two other men are the owners of the teams to move the bees. This picture was taken just after men and teams The horses had to be unhitched several arrived at the apiary, and was the betimes from the bogged-down wagons. ginning of the troubles.

AMERICAN BEE-KEEPER, as moving about eight hours. It took two teams bees is generally connected with some with eight horses and mules, and four

> Once on the road it was easy work. The two wagons were loaded to their full capacity and started for the orange orchards, some 15 miles farther northeast, where the bees should be located for about one month to build up. The teams came back on the 3rd day. Everything had been well finished.

The horses had to be unhitched several Long ropes were attached to the wag-Picture No. 2. The first wagon is ons, so eight horses and mules could now loaded with some 25 hives and stand and pull on harder ground, the

shovels and the wagons started again. in just one minute.

The bees will be shipped to Utah in about one week.

Visalia, Calif., May 10, 1906.

#### MEETING OF MUNCY VALLEY, PA., BEE-KEEPERS' ASSOCIATION.

THE MUNCY VALLEY Bee-keepers' Association held its annual meeting July 6, 1906 at the home of O. C. Fuller. As Mr. Fuller lives some five miles from Muncy, the most of the members had considerable distance to go to attend this meeting. Notwithstanding this fact there was a fair representation at the meeting.

The company arrived about 10, a. m. The forenoon was spent looking about Mr. Fuller's well-kept premises. The apiary contains some 75 colonies, some 12 or 15 of which belong to Mr. Fuller, Junior, (Russel L. Fuller), an enterprising young man in his early teens.

In the honey-house the company was shown the foundation mills, in the use of which Mr. Fuller is no novice and with which he not only manufactures the foundation needed in his own apiary but also no small quantity for the beekeepers of this section. In the shop many little ingenious devices were seen. which much interested the visitors, and proved that the man is bound to be a success in his vocation.

After a very enjoyable luncheon at the noon hour, the president, W. P. Merrill, called the meeting to order.

Among subjects under discussion, the report of the committee of the Pennsylvania State Bee-keepers' Association on supplies found a place. After discussing the subject at some length. a committee consisting of D. L. Woods and O. C. Fuller, was appointed to draft resolutions to be submitted to this meeting for their adoption.

While this committee was doing its work, the rest of the company went out to inspect the bees. In a queen-

wheels were dug out of the mud with opening the hive and finding the queen

After the committee on resolutions had finished its work the association reconvened and the resolutions below were submitted and and unanimously adopted.

The Association proceeded to the election of officers for the ensuing year

which resulted as follows:

President, W. P. Merrill; Vice president, O. C. Fuller; Secretary, W. E. Logan; Treasurer, F. C. Rickolt; Corresponding secretary, D. L. Woods.

The president appointed D. L. Woods and O. C. Fuller a committee on supplies.

After adjournment the visitors returned to their homes with a feeling that the occassion had been a profitable D. L. Woods. one.

Sec. pro tem. REPORT OF COMMITTEE ON RESOLUTIONS

Whereas, The Pennsylvanian Bee-Keepers' association in its annual session at State College, March 30, 1906, by a majority vote, declined to hold its next meeting in Philadelphia, and

Whereas, The recent Jenkintown meeting was called thus on R. R. orders: "Pennsylvania State Bee-Keepers' Association to be held at Jenkintown (Philadelphia, Pa.). June 26, 1906," and

Whereas, The meeting just mentioned was called and held under the management of a supply firm. Therefore be it

Resolved, That we, the Muncy Valley Bee-Keepers' Association, assembled July 6, 1906, express our firm disapproval of the use of the name of the State Bee-Keepers' Association in the interest of a private corporation.

Whereas, The committee on supplies appointed at the convention of the Pennsylvania State Bee-Keepers Association, State College, March 30, 1906, announces through the secretary of the state association that it "has been able to make arrangements whereby' certain supply companies "will furnish supplies to members of the Pennsylhunting contest between R. E. Merrill vania State Bee-Keepers Association and Russel Fuller, the former won, (but not to persons who are not members) at a special discount price which DEALING WITH SWARMS ACCORDamounts to about ten per cent. off the list price." Therefore be it

Resolved, That we, the members of the Muncy Valley Bee-Keepers' Assostate association (with which we are also connected), since, regardless of membership in the state association, individuals have been able to secure greater concessions from other firms than those mentioned in the report. And be it further

Resolved, Inasmuch as it is defininitely known that much better rates for supplies were available elsewhere than with the companies named in the announcement of this committee's report, that we believe the committee of the State association must have been either misled or ignorant of these greater cancessions.

ER has shown itself a loyal advocate of the interests of the honey producers, therefore be it

the Muncy Valley Bee-Keepers' Association adopt the above paper as our official organ and urge all our members to subscribe for the same.

Respectfully submitted by the committee. D. L. Woods.

O. C. FULLER.

It is further resolved by the Muncy Valley Bee-Keepers' Association that a copy of these resolutions be sent to THE AMERICAN BEE-KEEPER for publication.

The foregoing resolutions were unanimously adopted by the association.

[We have received a photograph of a number of the members of the foregoing associaton, including the participants in the queen-hunting contest, which arrived too late for this issue, but which will appear in a later number.—Ep1

See the special offer of The Bee-KEEPER on page 178.

# ING TO NATURAL INSTINCTS OF THE BEES.

C. W. Dayton.

ciation, fail to see in this arrangement "AS SOON as the swarm lights on a any advantage to the members of the bush the queen begins to travel bush the queen begins to travel through and through the cluster of bees, leaving her scent on each worker she touches or travels over." This is true sometimes but not always. It is governed by conditions existing in the old hive from which the swarm issued. If there are cells there from which young queens were about to hatch, or the issuance of the swarm had been delayed two or three days by unfavorable weather, the queen in the swarm would be in haste to get entirely away from the neighborhood of the apiary and her nervousness is readily imparted to the bees.

It is commonly supposed that a swarm Whereas, THE AMERICAN BEE-KEEP- of bees is only a swarm of bees, all as nearly alike as two peas, but there is really a difference, which is as varied as the numerous kinds of food upon our Resolved, That we, the members of dinner tables. Let it be meat, potatoes or bread, it is made up or constructed of the same kind of molecules; and that is the same with one swarm or another. The individual bees are the molecules of the swarm. A swarm of bees possesses the power of selfremoval. Each bee has a particular disposition which bears an influence on the swarm exactly in accordance with each individual bee's disposition, and this disposition is governed or modified by conditions or environments.

> In order to understand food, a scientiest studies the consistency and nature of single molecules; so, to understand a swarm of bees we must confine our study and observations upon the individuality of the bees of the swarm. Find out if bees think. And if they think, then how they think and what When it is understood they think. that bees have thoughts, and that these thoughts change at different times and

under different conditions, we will be lightly loaded. They were demoralized more successfully.

things to chance.

of the honey harvest I was in the yard kind are not worth one of the normal of a neighboring apiarist in friendly kind. conversation when a great roar of forty rods down the road. It seemed haphazard management. those bees. cluster betrayed their condition. They entering bee-keeping

able to provide for them in a way that and low in energy and also in vatility. will exactly coincide with their notions Consequently when they were on the and our plans will work smoothly and wing it was a different sound from that of a heavily loaded, happy swarm of Bee-keeping is not all, or nearly all, bees. My friend filled three hives with elbow work. In fact, it is nearly all them. In three weeks they had gone something else, while the elbow part is down to about one hive full, and by merely the assistant. It is not only fall there were three measley remnants. brain-labor, but to be somewhat exact, With plenty of honey all along they it is intensive brain labor. When we had barely enough for winter; the litordinarily see a swarm of bees, about tle they had stored was a poor job. the only thought at first is, "a box to They were absconders; either because put it in." But the more intensive their hive had too small an entrance and thought is, will it stay in the box? they had worn their lives half out in And will it accomplish anything? What fanning to prevent their honey from will be the conditions in its hive four melting down or their broad from beweeks thereafter? These are the most coming overheated, or else their hive vital points to be considered while the had been too small and they had been swarm is on the bush. It should not be compelled to cluster outside in the hot put in a hive to wait to see what it sun; or else some apiarist(?) had exwill do. If we possess a fund of bee tracted all their super and lower combs knowledge to lean upon and bear us out at once. From any one of these causes in our efforts we need not leave such they would have become discouraged and deserted their hive to leave for To illustrate: toward the latter end parts unknown. Five swarms of this

Nothing short of actual practice can swarming bees was heard thirty or elevate the apiarist above chance and Uncertain to be several swarms traveling togeth- management is nearly always much er as it was about ten rods long by five wasted energy, hopes and labor, not to or six wide. By the time the leaders say disappointments. And thus the were opposite the gate we were pre- business is robbed of the real measure pared for them and gave them shovel- of enjoyment it should possess. It refuls of sand and dust. They immed- quires several years to learn to tune a iately whirled round and clustered on a violin, and scarcely a less length of bush, enough to fill two or three hives, time to judge by the sound of a swarm supers and all. Now I did not want of bees. That is the reason there are Even the smell of the not many at the present day who are as a were not worth putting in a soap box work; but, as a get-rich-quick plan, except out of regard for their useful- rather. They will not spare the time ness which had gone before. When and effort to dip deeply enough to sethey were twenty rods down the road I ure a fund of bee knowledge which knew they were not worth stopping, would pave their future path with Their roar was too metallic and un-constant enjoyment. Their enthusiasm melodious to be a natural swarm. is generally founded upon exaggerated About one-third of the bees had no reports or someone's sudden chance honey and the other two-thirds were success. But a harvest of gold so seldom comes by a chance process that a common obstruction which is necesbarely one out of several but ends life a sary and appropriate that they should desperate failure.

of pay dirt, but it soon becomes ex- other obstructions. hausted. Then the proceeds are wasted unskilled there is nothing else besides in trying to locate another pocket. obstructions; but to the skilled obstruc-But bee-keeping is a mine which has tions are enjoyed and are necessary to no bottom to pay dirt. It has been make the occupation more interesting. worked for thousands of years, to the height of satisfaction, by those who was ever painted with money as the understood the art of working it. It rests with ourselves mainly, or perhaps applicable to pictures than bee-keepwholly, whether we are successful.

turn away into some other occupation, when, in reality, they only encountered

surmount in order to become strong, In pocket mining there is a quantity courageous and resourceful to pass Indeed, to the

It has been said that no great picture object or incentive. Could it be more ing? Though every one may not be-When an effort or undertaking does come a distinguished bee master, does not come out an eminent success, at it not require a measure of the same once, some view it as a failure and quality to become an ordinary beekeeper?

Chatsworth, Calif.

# A Birthday Present.

# A Veteran Pennsylvanian Apiarist is Given a Surprise. Blacks and Italians Compared.

W. J. DAVIS, 1ST.

DEAR BEE-KEEPERS: in this wise:

who is a Methodist preacher, and like some well-marked Italians. many a sensible man with a sensible them a few puffs of smoke and shook wife and children, was fond of honey. I suppose he had read in the good old box on a limb of the lilac and soon had book, "My son, eat thou honey for it them nicely clustered in the box. is good and the honey comb which is the 18th of May. And when the com- had not a cell of drone comb, and I

As my over the 'phone that a swarm of bees good wife and children are out of had settled on a lilac in the next yard town today and I had to stay at home from where the company met, about to look after the bees, I thought 30 rods from my home. I rather wantit a good time to tell you about my ed to investigate, so took my hiving birthday present. Well, it happened box and smoker, and went to the designated vard and found a large swarm of On the 17th of May last, our minister, hybrid bees, most of them black with them into my hiving box and hung the

While this was being done, the comsweet to thy taste." Well, he got pany were assembled at the next house 30 or 40 of my neighbors into the secret watching me get the bees. As soon as of giving me a surprise. But owing to they were sufficiently settled, I took some important engagement, probably the box in my hand and walked home. a wedding, he had it postponed until I hived them on full drawn combs that pany were assembled at a place agreed reasoned like this: Here is an early upon, about 1 p. m. I received a call swarm and they must have great vigor;

some people believe it.

another kind of swarm came. They carrying out and leading away one of didn't fly, but came on their feet with my Italian swarms. So I took out all well-filled baskets of things good to the comb in search of the black queen. eat. It is needless to add that a good But I might about as well have hunted social time and a good feast was enjoy- "for a needle in a haystack." Then I



MR. W. J. DAVIS.

ent." Well, I did not esteem the prestheir drones.

I will see for myself whether they work honey, having the full benefit of the better than pure Italians. You know fruit bloom, and I thought of the possithat story has been told so much that bility of their swarming, and as my laying queens of 1905 were all clipped I Soon after I got home with the bees, saw the possibility of Mrs. Black queen ed with about 40 of my good neighbors. put an Italian queen with two combs of And some of them suggested that I call brood, and filled balance of hive with that swarm of bees "a birthday pres- drawn combs and moved the black swarm to a new location, putting the prepared hive of same color in its place to draw off the field bees in order to find the queen. In three or four days I went for that black queen and killed her and gave the colony an Italian queen cell. I found the same disagreeable traits that the blacks had 40 or 50 years ago. If subdued to any reasonable degree they would run in wild confusion. They would volunteer an attack on me in any part of the yard (scolding bees, as Bro. Doolittle calls them) and when brought down by a quick spat of the hands, nine out of ten were black bees. In fact, there is as much meanness to the square inch in a hybrid bee as there is in a mule.

It is all nonsense to talk of crossing Italians with Carniolans or Caucasians to get a better bee than the Italians. I have seen poultry mixed, crossed and recrossed until a flock of poultry would remind the bible reader of Joseph's coat.

I have got actually tired of reading ent very highly further than the added in the bee papers of "how to prevent experience would be of benefit. My swarming." Here's how to prevent it: wife said, "Oh, do not bother with Give the colony a hive big enough and them; you have bees enough," which it wont swarm, and this rule will apply was probably true, but if they had lo- from the equator to the poles. (Excated near, either in a hive or tree, cuse this digression.) I dont want any they would be a constant trouble from hybrid bees. Some say the Caucasians will not sting. Some say they The spring being late and frosty, my will not work. Some say that if de-Italians did not swarm until June 11th. prived of their queen they will start 100 By that time the blacks had their queen cells. If I had an Italian colocombs well occupied with bread and ny that would start one-fourth that number, I am sure the queen that pro- which left for the woods without suffithose who have tried them years ago.

Seventy-eight years have taught me that life is too short for each individual to experiment along the various lines of human industry and despise the experience of others.

Youngsville, Pa., July 7. 1906.

#### BEES ON A POULTRY FARM

#### Victor D. Caneday.

ASI HAVE BEEN asked to contribute a paper for this meeting I will give you an outline of our very limited experience in bee-keeping and tell you why we choose to keep bees in connecour thoroughbred poultry.

About the middle of December, 1899, to begin bee-keeping. them in our house cellar and following and no surplus honey, our three colonies these seasons. increased to seven and gave us forty one hundred and seventy pounds of ing if not something besides. comb honey. We sold five colonies and

duced such bees would not live her se- cient notice. With such good success cond year. I have not tried the Cau- as we have had from the very outset, casians, but I accept the evidence of you will not be surprised to learn that we are quite favorably impressed with bee-keeping as an adjunct to poultry raising and fruit growing.

> Perhaps the one thing which most strongly influences people to keep bees is their fondness for honey and with us the supply of honey for our own table was the first consideration.

Bee-keeping is particularly adapted as an adjunct to poultry farming, as the heaviest part of the work among the bees comes at a time when the poultry work is comparatively light. On most practical poultry farms the hatching season closes with May and the work during the remainder of the tion with the breeding and rearing of season is comparatively light, while the work with the bees is most exacting from the last of May through June and we bought three colonies of bees for \$6. July, If the poultry keeper chooses to The low price inducing us at that time bend most of his energies to obtaining We wintered fall and winter eggs, which are the most productive of profit, he is free to summer, although a very poor year and give them his entire attention, as the many around us had scarcely a swarm bees require very little of his time at

The labor of both bee-keeping and pounds of surplus. During the season poultry raising is comparatively light of 1901 our seven colonies gave us near- work and to one not overly strong and ly 800 pounds of surplus honey and in- who feels the need of an open air life creased to fifteen stands. Our banner there are few occupations which are hive that year gave us one hundred and more attractive and fascinating and five pounds of surplus from the first certainly few which require so little swarm and sixty-five pounds from the capital to be invested and yet are capold hive itself, making a total yield of able of furnishing one with a good liv-

In keeping either bees or poultry it is began with ten last spring, which in-essential that one apply themselves creased to eighteen and of that number closely to the work. Although the work we have fourteen left, the others having itself is not heavy or particularly taxbeen sold. The honey yield with us ing on one's strength, it requires conthis year was only about half what it stant and systematic attention to insure was in 1901, the ten colonies of last best results. Perhaps anyone very spring's count, gave us a yield of only much disinclined to stay at home closely about six hundred pounds of surplus. would not find them congenial employ-So far we have not lost a colony in ments, owing to this particular feature. any way, with the exception of two This, however, would prove no objec\_ rural surroundings. the care and attention they require.

Rocks for breeding purposes. when other work is not so pressing.

fere very little with our regular poultry handled profitably. The chickens are allowed to ground.

to the well-being of the other. thus preventing swarms clustering too were practically without drone comb. far out of one's reach and in case of With proper care and the use of modits being thought necessary to remove ern appliances there is both pleasure

tion to the many who have a natural the branch on which the swarm clusters fondness for the home life and its plum trees are less liable to injure from In fact, such the unseasonable pruning. It is generwould consider it rather a pleasure to ally known that fowls are of no small stay at home and give these interests benefit to the fruit trees, not only in consuming many insect enemies of the Our farm consists of only ten acres fruit, but in the increased fertility of and it is devoted to the breeding and the soil over which they run. Fruit raising of pure bred White Plymouth growers generally, I believe, recognize Our the value of bees in fertilizing the fruit busiest time is during the fall and win- blossoms and increasing their chances ter, with selling and shipping of breed- of liberal yields of fruit, so it will be ing fowls and during the spring with readily conceded that the production the sales and shipments of eggs for of honey, fruit and poultry products hatching purposes. Thus you see our can be profitably and economically comwork with the bees comes at a time bined. However we would not care to engage in the culture of small fruits We have quite an orchard of plum and bee-keeping together, especially trees now well started on the farm to the raising of strawberries, for the furnish shade for the poultry and inci- heaviest work of picking and marketdentally fruit for our table and for sale. ing the strawberry crop comes just in Bee-keeping has been taken up as a the height of the swarming season and side line and has been found to inter- both require prompt attention to be

Perhaps in the majority of cases run among the hives to the mutual where bee-keeping is carried on in corbenefit, we believe, of both bees and nection with other pursuits, it would From the fact that the be found convenient to run principally chickens frequent the neighborhood of for extracted honey. One of the chief the hives so much and we seem to have difficulties with us has been the tendso little trouble from the bee moth, ency to excessive swarming when run we judge they catch many of the millers for comb honey, and by working for and I am quite certain they catch a extracted honey this tendency seems to great many drones although manifest- be materially lessened, as I believe is the ing a wholesome fear of the workers. experience of bee-keepers generally. In many ways poultry and bees seem We had one coloney the past summer to be adapted to occupying the same which did not swarm at all and otherwise than the presence of considerable The combination of poultry, fruit and drone comb in the hive we could not bees is a unique one, each contributing see anything to prevent them swarming. Shade It was one of our best Italian colonies is one of the essentials on a poultry and was used to supply breeding drones farm and nothing furnishes any more for the apiary. We thought possibly desirable shade for the chickens than the presence of so much drone comb an orchard of plum or apple trees and had something to do with it, for our either makes a most desirable location other colonies had swarmed more than for the apiary, especially a plum or- usual, although the past season has chard, for the trees are of a low growth been an unusually cool one, but they

and profit in "bees on a poultry farm." The above paper was read at a meet-

ing of the Minnesota Bee-keepers, Association, held at Minneapolis.]

#### BEE-KEEPERS' EXHIBITION.

### Worcester County (Mass.) Bee-Keepers' Association

#### Burton N. Gates, Chairman.

THE DATE for the display to be brought together under the direction of the Worcester County Beekeepers' Association has been fixed as September 24, 25, and 26, in Horticultural Hall, Worcester, Mass. As mentioned in the schedule of calls, published in American Bee-keeper, May issue, the hall is fully equipped with all materials to aid the exhibitor. All will be furnished gratis. The exhibition will also be free to the public, which factor will draw several thousand people per day. In this way we hope to educate the central Massachusetts public in honey and bees. Therefore we solicit every bee-keeper far and near to help make this show a success.

Already a large number of communications for space have been received. Specialists, manufacturers and producers have shown their interest, for which we extend hearty thanks,

The writer, in his visits among beekeepers of New England, has seen the preparations, in many cases elaborate, which are being made by the honey producers. Some of the crops which have been taken off are a delight, and promise sharp competition. The beekeepers have also shown the writer novelties and curiosities which they are arranging for display. It is evident on all sides that we will have a large, instructive, and, indeed, elaborate display the last week in Septem- way yet, after all that has been said.

In order to reach everybody we would bring the matter to the attention of the bee-keepers again, and even ask on page 178.

them, so far as possible, to aid us not only by displays, but would ask them to see that some notice is placed in their newspapers. This will help to spread the interest. Remember it is our purpose to help the producer to the end of helping himself. This we will accomplish by instructing and interesting the public in hopes of increasing the honey consumption and by directly helping the producer and bee-keeper to modern and better methods.

Please spread the interest and enthusiasm, send displays, come yourself and bring others, and communicate in regard to the Worcester County Beekeepers' Association's exhibition of bees, honey, wax, and bee furniture, to be held in Worcester, Horticultural Hall, Sept. 24, 25, and 26.

Clark University, Worcester, Mass. Summer address, Camp Asquam, Lake Asquam, R. D. No. 1, Ashland.

#### THE SEASON IN CALOFORNIA

#### C. W. Dayton

We have obtained about one-third of a crop of honey, nearly all from wild alfalfa, a mountain plant. The honey is a very poor grade, dark and illflavored. Alfalfa continued to yield about six weeks this year. Other seasons it comes and goes in a week. Sage yielded very little. Sumac is also vielding some honey and there are one or two plants yet to bloom. It takes about 30 to 40 days to fill a super of 25 There is considerable old pounds. honey in the Los Angeles market, most-

It is just the kind of honey (this year's) that the mixers like to get hold of. I saw some adulterated last season. It shows there is a tendency that

Chatsworth, Calif., July 5, 1906.

Tell your friends of the special offer



#### FRANCE.

ONE RESULT OF FEEDING SUGAR.

An apiarist whose bees had been badly weakened by paralysis was compelled to feed them in the spring to build them up. Not having any honey he used sugar syrup. He made a small crop and sold it. The buyers got suspicious and had some of it analyzed. The honey was found to contain 50 per cent. of sugar, and the apiarist had to pay a fine for adulteration of honey.--Le Rucher Belge.

#### TRANSFERING EGGS.

In the Rucher Belge, M. N. Mercier has a long article on the sex of eggs, and whether the queen lays the males or females voluntarily or whether it is the compression of the cells that causes her to lay female eggs in the worker cells. He concludes in favor of the first supposition. Among the different experiments he made is the following: Drive a colony of bees in a straw hive or any kind of suitable box. Put it on a black cloth. The queen being full of eggs is compelled to lay them or rather the bee-egg with the needle and it will law, and it is strange that legislators stick to it. Furthermore it can be de- dare to refuse to enact so just a law. posited in a worker cell and will hatch In the state of New York it is unlawin due time. The fact in itself has no ful to offer for sale any compound under great value, but it occurred to me that the name of "honey" If such a cominstead of transferring larvae in queen pound is offered it must sail under its rearing, it might be well to transfer own flag, and if real honey is an ineggs. An objection to transferring gredient the word honey must appear

larvae is that there is some interruption in their feeding; and while it may possibly never do any harm it would be better to avoid it.

While on the subject let me relate something that took place right here in Knoxville, Tenn., U. S. A.

A country bee-keeper had somehow or other got hold of something about modern queen rearing and transferred larvae and got enthusiastic about it. One day I met him and he told me all about it, but made several mistakes. For one, he speaks all the time of "transferring eggs" instead of larvae. I finally asked him "how do the eggs stay in the cells? It looks like they ought to fall out." He stood about half a minute silent, or rather dumbfounded, scratched his head and then all at once brightened up and said: "Oh, they put a little honey in the bottom of the cell and the egg stick to it."

After all why could it not be done?

#### GERMANY.

LAWS GOVERNING ADULTERATION.

The honey producers in Germany are expell them at least for some little still waiting for the desired honey legtime. These eggs can easily be seen on islation, which has long been urged by the black cloth. Take a needle, dip the the bee-keepers' societies. It seems so point in the white of an egg-not a natural aud just that the product of the bee-egg, but a hen's egg. Now touch hive should enjoy the protection of the

in the same sized type upon the analysis. This is a good law and every state in the Union and every foreign country should follow New York's example. If not, why not?

SEEKS TO EXCLUDE FOREIGN COMPETI-TION.

H. Schmidt says in Leipz. Bztg. that Germany imports yearly about five million pounds of honey (extracted) at about ten cents per pound. To produce this amount of honey would require the keeping of 250,000 colonies of bees at an average of 20 pounds per hive. His opinion is that Germany is already so well stocked up with bees that it would be impractical to increase the number by 200,000, not taking into consideration that the German bee-keepers would not be willing to sell their own product at such a low figure, in fact, could not do so profitably. He concludes that the only method to drive the Brazilian, Cuban and California honey out of the market would be to place a prohibitory tariff upon this product, which is not likely to be done.

#### BUT NOT IN IRELAND.

As a lubricator for the Rietsche foundation press (and probably for other foundation mills) M. Barthel discovered that potato water (juice) answers the purpose admirably. By way of explanation I want to say that in certain portions of Germany (Thuringia, for example) the people prepare a peculiar kind of "potato dumpling" (Thuringer kloesse). The raw potatoes are pared and grated, then placed in a coarse sack and put under press. The water or liquid from this pressing is full of starch, and it is owing to this starch that the foundation is released from the press when used as a lubricator.— Deutsch Bzcht.

A. Schulze advertises in Kolonialwaren to sell a recipe for honey. Its principal ingredient is buttermilk.

#### BELGIUM.

[Le Rucher Belge.]

UNITING.

It is sometimes difficult to unite colonies without having them fight. The editor of the Rucher Belge advises to place in each of the colonies to be united a ball of naphthaline two or three days before the uniting. In uniting shake the bees of both colonies in front of their new home, dusting them with flour. There never will be any fight between bees thus treated.

#### PREVENTION OF SWARMING.

When a colony has begun queen cells. it is moved to a new location. Another hive is placed on the old stand and the supers put on it. In order to retain the field bees it is necessary to put in the hive a comb of brood. No swarming will take place in either during the next ten days, and further, the swarming fever will disappear. After ten days the original colony is returned to its old stand. The extra combs must be disposed of elsewhere unless both stories are used. As there is no queen on the old stand, these extra combs will have no brood. The queen cells have been destroyed in the old hive owing to the absence of the field bees. Queen cells have been built in the comb on the old stand, and the apiarist can have a new queen if he wishes.

#### BLACK BEES PREFERRED.

One of the bee-keepers' association of Switzerland sent to its members cards asking which race of bees they liked best. 1865 preferred the black bees, 147 the Carniolian, 48 the Italian, and 393 the hybrids.

#### STRONG COLONIES FOR SURPLUS.

A series of experiments made by SCHULZE'S MOTHER MUST BE A YANKEE Mr. Martin gave the following result: 1st. Small colonies of about 30,000 bees gave an average of 18 lbs. of surplus. 2d. Strong colonies of about 60,000 bees gave about 46 lbs. Extra strong colonies of about 120,000 bees gave 165 lbs. each.

#### INCREASE OF CHOICE STOCK.

Mr. A. Crousse gives the following process to increase the number of colonies of a superior stock. The process is especially adapted to the straw or box hives, but can be used with any kind. When the colony of choice stock swarms, hive it on the old stand, and move the old hive to a new place, but on the stand of another colony, this last one being placed on a new stand. Of course the choice colony receiving thus a full field force of bees will swarm again. When it does, repeat the same process as often as the colony swarms and there will be a number of strong colonies of choice stock in the apiary. Or the apiarist can drive the first swarm out from the mother colony if he prefers.

Mr. Crousse claims that the placing of a frame of foundation in the middle of the brood nest will prevent the bees from making further attempts to swarm.

#### BEES AND RED CLOVER.

Mr. Emile Van Hay announces his intention of experimenting on the subject of bees and red clover. He is trying to create by selection a race of bees with longer tongues, and a variety of clover with shorter blossoms. He declares he will put in as many years as Few contend that bees ever do. A beenecessary (if he lives).

different colonies of black bees gave Hive an after-swarm on five frames from 71 to 92 tenths millimeters, half filled with foundation. On the measured with the glossometer Charton. fifth day remove the queen; at the same These lengths are not strictly the time make an examination to be sure length of the tongues, but the distance that no eggs have as yet been deposa bee could reach the honey through a ited in the newly constructed combs. piece of wire cloth. Furthermore they Three days after this open the hive. refer to separate colonies, but not to Many queen cells will be found stocked individual bees. What difference might up with food, but with no brood. Give

3d. colony was not investigated. In a very dry year, he saw bees in quantity gathering honey on some red clover fields. He thinks that the dry weather prevented the flowers from growing to full length and thus made the nectar accessible to the bees.

#### JAPAN.

An English bee-keeper reports in the British Bee Journal as follows about the bee-keeping pursuit: Honey is in Japan principally as medicine. The most common hive used is a square box of a cubic foot with a hinged door at the back. When honey is wanted the combs are cut out, mashed (brood and all) and squeezed out. Little wax is produced, though much vegetable wax is used in the arts and mechanics. The native bees in Japan are smaller than the European bees, and do not readily take to our comb foundation.

After two years of experience the writer has concluded that it is cheaper to buy his honey than raise it, as the bees do not store honey to the extent they do in western countries. The bees also have many enemies, of which the most important are the wax moth, wasps and lizzards.

#### AUSTRIA.

#### TEST FOR EGG-MOVING

During the years past much has been written in regard to bees moving eggs. keeper of Austria suggests in Deutsch Measurements of tongue lengths of Imker, to make the following test: exist between the different bees of a the colony a frame of open brood and brood (?).

WHAT ABOUT MRS. BIENEN-NATER'S PILLOWS?

The Bienen-Vater recommends as a remedy for dandruff to dissolve one tablespoonful of honey in a pint of warm water. Wet up the hair before going to bed. A few doses will suffice.

#### SWITZERLAND.

#### AND THE MAJORITY IS SENSIBLE

One thousand Switzer bee-keepers are engaged in queen rearing. Of these 77 per cent favor the black bee (Gernan or brown bee); 15 per cent prefer a hybrid bee, 6 per cent the Carniolan, leaving only 2 per cent for other races, which is a bad showing for the Italian blood.

#### DIRECT INTRODUCTION.

Dr. K. Bruennich is very much in favor of the direct introduction of queen bees, also called the Simmins' method and advocated by A. C. Miller. He says it is an infallable plan. The use of tobacco smoke is to be prefered. —Selipz. Bztg.

#### CHILI.

Prosch, a German bee-keeper in Gorbea, says that Chili will hardly be much of a competitor as regards honey production. The climate is extremely favorable for bee-keeping but pasturage is lacking. The Italian bee was imported over 50 years ago and is the only bee kept.

#### Season in New York.

In certain localities honey is coming in quite fast here, in others but little so far. There have been severe storms and hail has done a great deal of damage. The hail-stones came with such force and of such size (from six to nine 1.2 Mew York. May 12—The supply of honey is sufficient to meet demand. The demand is fair for extracted. We quote our market today as follows: Comb. 9 to 15c; as to quality, Extracted, 4½ to 6½. Beeswax 30 to 31c, Hildreth & Segelken.

eggs. After another three days the inches in circumference) as to cut holes queen cells will be found to contain through the roofs and kill stock. In these sections there may be very little honey. One of my outyards (unfortunately the smallest) bees are doing

F. GREINER. Naples, N. Y., June 29, 1906.

WANTED:-by Chicago wholesale and mail order WANTED;—by Chicago wholesale and mail order house, assistant manager (man or woman) for this county and adjoining territory. Salary \$20 and expenses paid weekly; expense money advanced Work pleasant; position permanent. No investment or experience required. Spare me valuable. Write at once for full particulars, and enclose self-addressed envelope. Address. GENERAL MANAGER 148 E. Lake St. Chicago. GENERAL MANAGER. 143 E. Lake St., Chicago. sept 6t

#### HONEY AND BEESWAX MARKET.

Chicago, July 9.—Market is practically bare of comb honey and while a ittle sells at about 15c per lb, for the best white grades there is little volume to the trade. Extracted in some demand at 6 to 7 c. for the sweet grades, but off flavors are about unsalable at 5 to 5½ c. Beeswax selling upon convincients 20 convenients. arrival at 30 c. per lb.

R. A. Burnett &Co.

Poston and Worcester, July 18.—Our market is entirely cleaned up on honey. We sold last lot at 15 c. Prices through season for good stock have been from 14 to 17c. There has not been any over-supply on the market, therefore conditions have been favorable for good prices. We understood the supply of the description of the supply of the description of the supply of stand there is to be quite a good crop next season but still we hope to have a good, fair market, although possibly not quiteas high as this season. W. H. Blodget & Co.

Kansas City, Mo., July 17.—The supply of honey is somewhat limited with demand fair and increasing. We quote our market today as follows: Fancy white per case [24 sections] \$3.00. Extracted 5½c. Becswax none. No new extracted honey as yet. C. C. Ciemons & Co.

Buffalo, July 16—The supply of honey is coming slowly, while demand is increasing. We quote our market to day: Fancy comb, 14 to 15 c. Extracted, 5 to 8 c. Beeswax, 28 to 30c. Strickly fancy is wanted but Nos. 2 and 3 sell slowly at 10-12c. Old unsaleable stock slow at 3 to 5 c. Batterson & Co.

Cincinnati, June 15.—The demand for extracted honey has brightened up within the past thirty days. However, there is much of last season's crop still unsold, which tends to hold down the price. There is no material change in prices since our last quotation. Quote amber in barrels at 5 to 6½c per lb. No new white clover extracted honey on the market as yet. Find ready sale for new crop of comb honey at 14 to 15½. For choice, yellow became we are required the part of the delivered Cincinnati, June 15.-The demand for extracted low beeswax we are paying 30c per lb, delivered

The Fred W, Muth Co.

51 Walnut St.

THE

#### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

#### THE W. T. FALCONER MFG. CO. Proprietors

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#### SUBSCRIPTION RECEIPTS.

We do not acknowledge receipt of subscriptions Your receipt of the journal is evidence of your subscription having been entered. The date subscription having been entered. The date printed upon the wrapper label of your paper indicates the time to which you have paid. subscribers will confer a favor by observing the date, as noted, and promptly renewing or requesting the paper discontinued at expiration of time paid for, as may be desired.

Reports from various parts of New England indicate an abundant honey crop, a veritable old timer. Some very fancy honey has been secured but some places report honey dew as abundant and as having darkened the "white" honey. New honey is already on the market.

At the recent meeting of the Pennslyvania Bee-keepers Association held at Jenkintown, Pa., one of the "exhibits" which created much amusement was an old man who went about introducing himself as "I am Blankety Branch" (we omit his real name) and seeming much surprised and disgusted if the recipient of the "honor" did not show due delight and adoration. His egotistical antics added much to the entertainment of the visitors. boys who stay away from the conventions often miss rare enjoyment.

One of the greatest frauds perpetrated on bee-keepers was the exploitation of the eight-frame hives. Its chief object was to enable dealers in bees to sell for five colonies what, save for the addition of a queen and a hive together costing the seller less than \$1.50, had formerly constituted four colonies.

An officer of one of the Pennsylvania societies writes: "I must congratulate you upon the stand you have taken in our fight. Keep up the good work, and the time will come when the bee-keepers of this country will have their eyes open.'' Trust THE BEE-KEEPER, brother.

By the first of September nuclei and weak colonies must be strengthened if they are to be ready for winter, and the novice will do well not to put off after then the union of such. Late united nuclei do not make good colonies for successful wintering.

If you live in New England remember the Bee Show of the Worcester County (Mass.) Association. Prepare exhibits for it. Go see it. article by the Chairman in another column.

The wise honey producer will carefully sort out his honey, keeping the fine flavored by itself and the less desirable by itself. It pays.

#### Requening.

If you wish to requeen any or all of your colonies now is the time to do it. The young queens introduced in August have ample time to stock their colonies with young bees before the cold weather. and if the introduction is made early in month their bees will be in the best condition to get the fall flow.

more or less interference with the work of the bees, hence it is to the evident advantage of the bee-keeper to perform such operations when the bees are doing the least gathering. Early August is, in the Northern states, the best season for such work, but it varies in the different locations with the varying flora, and also from year to year as the weather varies the production of the flowers. But bearing in mind the essential factors above alluded to each person can time the work to fit the local conditions.

#### Amusing.

Quite amusing is the spread-eagle exploitation of new schemes and methods in honey production, when said new schemes call for new appliances and contraptions which the exploiters may be able to sell to the inexperienced.

Less amusing but quite as illustrative of men and methods is the short shift these same exploiters give to new systems when they can get no coin therefrom.

The beginner will do well to be cautious about investing in the articles thus boomed. The veteran only has to look back through the files of his papers or in his lumber loft to see myriads of similar devices for getting between the bee-keeper and his money.

Owing, perhaps, to the protracted drouth throughout the Northern states, the queen trade is reported by some ing the past season.

#### The Independent (?) Press.

Silence may be golden, but how about the silence of the bee press on the "independent movement" and the resulting lowering of prices of supplies? Save for the Rural Bee Keeper and the Apiarist, outside our columns, not a word has the avowedly independent press'said as to where and how its read-Dequeening and requeening means ers may save twenty per cent in the cost of their supplies. Assertions of the non-existence of any "understanding," "agreement" or "combination" between the editors or publishers of those papers looks very dubious in the face of their eloquent silence on matters of such financial importance to their readers.

> Mr. F. D. Look, Campbell, N. Y., an experienced bee-keeper, finds a number of sections, containing new honey, the centre of which is granulated, and he asks as to the cause. If the combs are of this year's building, we are unable to explain. If the honey was stored in combs carried over from last season, they probably contained a small amount of honey in which granulation was effected last winter. In the latter case, the process might continue in that more recently stored. If any of our readers have had experience along this line, a statement of same is invited.

Having all colonies headed by queens of the same age introduced at the same season of the year and reared from the same stock will result in more uniform work of the colonies, lessen the labor of the apiarist, and increase his profits.

The convention of the National Bee-Keepers' Association this year will be held at San Antonio, Tex., November 8, 9 and 10.

The Rural Bee-Keeper has reduced breeders as not being very brisk dur- its subscription price from \$1 to 50 cents a year,

#### The New Bee Journals.

The Apiarist, the bee journal recently started at Waco, Texas, is really making a very creditable start and displays considerable strength in its list of practical contributors.

Texas is a great state and within her borders are operated some of the largest and most profitable apiaries of the country. The Apiarist is conducted on independent lines, and as long as it adheres to this policy, and caters unwaveringly to the interests of the beekeepers, and leaves the supply dealers and manufacturers to root for themselves, it is the duty of Texas beekeepers to heartily support it. They should subscribe, advertise, talk, work do everything to place it on a substantial basis, and thereby have an independent mouthpiece of their own. Of course, if it ever unites with the clique and smothers everything excepting that which conspires to further the personal interests of a few who would dominate American beedom, they should drop it like a red-hot stove, and let it look for support to those whose interests it does defend.

A few short years ago the American BEE-KEEPER launched upon the turbulent sea of apiarian journalism, and was tendered the sympathy of the old established journals. Of course it could not last long, and the effort was considered useless. It has won, and today would not hesitate to compare subscription lists with the oldest bee journal in America, and we are not done, for every day adds to its strength and in-It is fighting for the beekeepers, not exploiting any line of supplies.

#### Scent at a Premium.

the queen begins to travel through and Business World.

through the cluster of bees, leaving her scent on each worker she touches or travels over, and this is the main stimulus that causes the bees to seek isolation from the parent hive." The words I have italicised open up a new "odor theory."

The foregoing is from a recent number of the British Bee Journal, of London. In reply we have only to say:

The editors of the AMERICAN BEE-KEEPER do not permit any preconcieved ideas of their own to in anywise interfere with a free and full expression of the ideas of other bee-keepers. They make no pretense to holding a monopoly on useful ideas or to having "cornered" apiarian wisdom. They especially invite the expression of thought upon opposition lines, in order that the truth may develop.

The weakest kind of trade journal is that which declines to publish anything in opposition to the editor's grounded faith. "In a multitude of counsel there is wisdom."

#### Bees North of the Arctic Circle.

Mr. W. S. Hart, who occasionally writes for these columns, and who is one of Florida's most progressive and prosperous apiarists and orange growtravels extensively during the summer months. In a recent letter he says:

"Last year I noticed quite a lot of white clover bloom north of the Arctic circle, but no bees on any of it. I do not think they can stand the winters up there."

#### Nine Till Six.

"My business belongs to me twentyfour hours a day. I belong to my bus-Where was Mr. A. C. Miller when iness from nine till six o'clock. From the American Bee-Keeper for June six till nine I must be free. I can do was being edited? Mr. Dayton, on page more work by thus restricting my 109 gives him some food for thought: hours of business, and I believe I can "As soon as a swarm alights on a bush do better work in those hours."-The

#### The Move For Independence.

In this number appears a report of the Muncy Valley (Pa.) Bee-keepers' Association, including important resolutions adopted by that organization. Also a report of the New Jersey meeting at Philadelphia, which also passed radical resolutions bearing upon the matter of supplies at a fair price for the honey producer.

It will also be noted that the former society formally recognizes and indorses the efforts of the AMERICAN BEEKEEPER in behalf of the real producers, as has already been done by the New York State Association.

No movement since the introduction of modern bee-keeping has taken a deeper hold upon the honey producers, nor so thoroughly agitated the fraternity as this matter of having their affairs dominated by interests which are obviously apart and distinctly at variance with their own; and the agitation promises to shake American beedom from centre to circumferance before its abatement. It is a question bearing directly upon the interests of every bee-keeper in America, and its tendency is to effect a saving upon the part of the bee-keeper, with a corresponding decrease of profit to the manufacturer of supplies. The bee-keepers, we think are making no unreasonable demands -they ask only a fair deal for all concerned, and it is obviously the plain duty of any journal posing as the champion of the rights of the producing fraternity to espouse the cause and lend all aid possible in the achievement of equity in the business relations that are necessary between manufacturer and consumer. They ask to be permitted to control their own business affairs and organizations, and feel that they are actually competent to do this without the guiding hand of foreign interests which have amassed wealth and influence through their own labor. while they themselves plod wearily on from year to year with a meager subsistence.

From Maine to California the beekeepers are clamoring for an audience in this, their appeal for independent action among bee-keepers, yet the older and "leading" (?) bee journals have been, and probably will continue to be as mute as an Egyptian tomb upon these questions of such vital importance to the producing industry. Each successive issue continues to grind out instructions as to when supers should be placed upon the hive; and their readers are kept informed as to the latest and most expeditious manner of taking out combs from the hive when extracting. The wonderful results that may be or have been achieved by the use of Dooflicker's wonderful patent hive, to which an extra layer of paraffin paper has been added somewhere between the recently improved automatic sliding bottom-board and the wonderful lightning-proof cover.

Be it said to the credit of American bee-keepers that they are awakening to the demands of their business interests, which shall not be smothered through lack of a mouthpiece in heralding their plea abroad. The names of the few leaders in this important work shall live in the archives of beedom so long as history preserves the records of our industry upon the American continent.

#### Stingless Bees in Philadelphia.

An educational field meeting was recently held at the apiaries of W. A. Selser, near Philadelphia, at which the public witnessed numerous demonstrations by practical operators. In its report of the affair the Philadelphia North American says:

"Chief of the demonstrations was that of the stingless bees procured in South America by W. K. Morrison. To obtain the two colonies he traveled 300 miles up the Oronoco river, and the insects are the first of their kind brought to this country.

"But what they lack in stinging

ability they more than make up for by when covered. Was Rip Van Winkle a scratching. They plant themselves on creation of an imaginative brain, or the face, hands and even in the hair of is it possible that he was only a type of the nearest person, and will scratch many who move amongst us, and who until removed one at a time. Mr. Morri- have just awakened from a twenty son and half a dozen experts who years' mental slumber to find that in assisted him in demonstrating had more ideas and knowledge their wide-awake tors of stinging bees combined.

work. For a time it seemed as if the to remind your readers of what Mr. stingless bees would drive the demon- O'Bryen impresses upon his pupils. amusement of the crowd.

" 'Say,' shouted demonstrator, 'take these bees away Irish Bee Journal. and send some up here that sting!' which was greeted by a hearty laugh. In his talk on the stingless bees Mr. Morrison explained that the advantage of the bee was not that it did not sting -he couldn't very well have said so, after the demonstration-but that it produced a superior quality of honey, and in larger quantities than the ordinary stinging bee.

"The honey cells resemble large cups, and the honey is easy to get. The colonies of the stingless bees are much smaller than those of the ordinary bee, there being only about 2000 bees in the former, whereas there are about 50,000 to 100,000 in the latter. An effort will be made to breed the stingless bee in the United States, and Mr Selser will at once obtain some for his apiaries."

#### Truth Stranger Than Fiction.

Even in bee-keeping the force of the adage "truth is stranger than fiction," is sometimes thrust upon us. During the bitterly cold days of the middle of May, an expert, in going his rounds not a hundred miles from where I write. found hives with all wraps removed and the frames entirely bare. The owner said ne thought the bees "too warm"

trouble than all the other demonstra- contemporaries have completely outstripped them? It is hardly possible to "When they opened the hives every imagine a bee-keeper, with half a dozen one expected the bees to come out and years' experience behind him, stating be absolutely harmless. In spite of the seriously, on a cold, spring day, that veils which all the demonstrators wore, his bees were "too warm." Yet the the bees soon got in their scratching fact remains, and it may be necessary strators from the platform, to the namely, that "a hive is an incubator in which there may be sixty thousand one tormented eggs and young bees hatching out."-

#### Wiring Foundation.

Four or five vertical wires cut to short length, say, 7½ in., and embedded (roughly spaced) in the foundation before fixing, and one horizontal wire near the bottom of the frame itself, would, I think, give good results with foundation which showed signs of sag. The vertical wires would support the foundation during building, and the horizontal would support the weak spot in the completed comb. -British Bee Journal.

#### 1906 Honey Crops and Prospects.

The following is from a bulletin issued to members of the National Beekeepers' Association, by General manager N. E. France, which records the status of affairs up to June 25:

Southern California: Fair crop--

better farther north in state.

Texas: Three crops; first two, failure; last, good. Colorado:

Light crop; some lost heavily their bees in winter.

Mississippi Valley: Not half crop.

Michigan, Ohio and Indiana: Half

Eastern States: Mostly good reports. 1905 crop about all sold: market bare: demand good.

#### Special Notice.

We have in prospect some important changes, with a view to materially improving the AMERICAN BEE-KEEPER at an early date, and the editor earnestly desires that every subscriber shall be paid up and in advance, in order that ample funds may be available for the consummation of our plans. Therefore we have decided to make an unprecidented offer to our present and prospective subscribers:

During the months of August and September we shall receive subscriptions, to apply on future issues only, and for any length of time desired, at 25 cents per year. This offer is open alike to new and old subscribers; the only conditions being that all arrearages shall be paid up, and that the 25-cent rate shall apply on subscription beginning not earlier than August, 1906.

By this offer patrons are enabled to secure the American Bee-Keeper four full years for one dollar, and we trust many will promptly avail themselves of the opportunity. Better consult the wrapper label on this number, note the date to which you are paid, and write at once, enclosing the amount necessary to pay up for the current year and four years in advance. you attend to the matter today, it will be done, and the regular monthly visits of THE BEE-KEEPER for the next four vears will thus be assured. It is very doubtful if such a liberal offer will ever again be made.

By telling your neighbor bee-keepers of this special offer, and inducing them to join with you in sending in their subscriptions for even one year (at 25 cents) you will be rendering a great service for which we shall be truly grateful.

#### Keeping Forty Million Bees.

At the late Chicago Convention one item of the program read: "How many bees shall a man keep?" With Mr. E. D. Townsend's aid I work it out as

about 40,000,000! Mr. Townsend keeps 800 colonies at times. Giving each of these a population of 50,000 bees in the height of the season, we find his live stock should total up to the foregoing. But the gist of his article leads to the belief that he considers 100 colonies in one location the ideal number, and a total of 500 colonies as sufficient to make him "quite sure of depending on the bees for a living, and a little extra for a rainy day." We in this country are far short of this ideal, so it is no wonder our editors invariably warn enthusiasts on paper to "ca' cannie" in starting an apiary as the sole means of subsistence. Very few, even in America, I think, believe in keeping many colonies in one locality. I note Mr. M. A. Gill, who has over 1,000 colonies, has "eleven apiaries, containing a little over 100 colonies each." This may be taken as the "standard" sized apiary. British Bee Journal.

#### True, What There is of It.

The Irish Bee Journal says:

The Americans are beginning to go for those publications that are run for ads., and to maintain the selfish interests of the owners. At a recent convention of the New York State Association, the president declared that the majority of the papers dealing with bee-keeping are run for private ends, and not for the good of the man who produces honey.

Our esteemed contemporary might have added in its comments that the same "recent convention of the New York State Association" commended and formally indorsed the policy of independence and fidelity to the interests of the honey producer pursued by The American Bee-Keeper.

The American Bee Journal has treated itself to a new cover design that is both pretty and appropriate. It has also introduced a number of specially designed department headings, as well as a full set of "running heads," all of which contribute to the attractiveness of the paper. Typographically, the A. B. J. is now a "peach."

#### One Cause of Excessive Sales Expense.

It is a good article, business is not flat and still it costs too much to sell. The results of the work of the sales force are not as satisfactory as they should be. Why?

Two to one it is lack of appreciation of the article among possible buyers. A man wants a thing and will pay for it, not in proportion to its merits but in proportion to his opinion of its merits.

But opinion cannot be made in a minute. Time is one of the ingredients of reputation. The high esteem of an article which is necessary to an advantageous sale should be created in advance. At the time the thing is wanted the buyer is preoccupied with the idea of the price and is not especially receptive to arguments as to merit.

Probably a third of the money now spent for selling ought to have been spent a year ago for reputation making by means of a printing press.

It is a pretty easy matter to sell a thing when possible buyers have been made to want it.—Selling Magazine.

#### What is Horse-Mint?

Naples, Ont., Co., N. Y. July 2, 1906. Editor Bee-Keeper:

I should like to know what is meant by horse-mint. I see by our town paper that a swarm in Texas gathered 1,000 pounds of honey from it in one season. A READER.

Horse-mint is a nectar-yielding plant (Monarda aristata) which grows both North and South, but perhaps more abundantly in Texas than elsewhere in the United States, though Wisconsin has harvested some good crops of honey from this source. The big Texas yield referred to is, doubtless, the one reported some twenty and odd years since by B. F. Carroll, of Dresden, Tex. It is claimed by some, however, that Mr. Carroll had several colonies working in one super, through queen-excluding zinc.—Editor.

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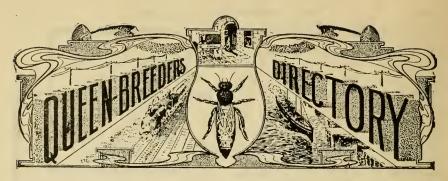
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QUEENS HERE.—We are still asking you to give us your trade. We sell Italians, Goldens and Carniolans at 75c for untested and \$1.00 for tested. Prices on quantities and nuclei upon application. JOHN W. PHARR, BERCLAIR, TEXAS. Jan. 6

SWARTHMORE APIARIES, SWARTHMORE, PA.—Our bees and queens are the brightest Italians procurable. Satisfaction guaranteed. We are breeding the Caucasians absolutely pure from direct imported stock.

W. W. CARY & SON, LYONSVILLE, MASS.
—Breeders of choice Italian bees and queens.
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MOORE'S LONG-TONGUED STRAIN of Italians become more and more popular each year. Those who have tested them know why. Descriptive circular free to all, Write J. P. MOORE, L. BOX 1, MORGAN, KY.

HONEY QUEENS AND BEES FOR SALE.—
I extracted 300 pounds per colony in 1903.
THOS. WORTHINGTON, Leota, Miss. Aug 5

THE A. I ROOT CO., Medina, O.—Breeders of Italian bees and queens.

BREEDING FROM SELECTION MERELY rejects the poorest. Long harvests, high mountains and deep blossoms improves the best. For queens bred along this line address for particulars, C. W. DAYTON, Chatsworth, Calif,

D. J. BLOCHER, PEARL CITY, ILL—Caucasian and Italian Queens reared in separate yards. Safe arrival of all stock guaranteed. Circulars and price list free. Jan7

COLLINGDALE APIARY—J.R. Rambo, breeder of Caucasian and Golden Italian queens. Italians bred from stock received from Swarthmore. Caucasians bred from imported queen. Queens reared and mated in separate yards, 6 miles apart Satisfaction and safe arrival guaranteed. Agent for The W.T Falconer Mfg. Co's. bee supplies. Collingdale, Delaware County, Penn.

JOHN M. DAVIS, SPRING HILL, TENN.— Has greatly enlarged and improved his queenrearing facilities. Two unrelated Carniolans and a dark leather Italian lately imported. My own strains of three-band and golden; "Moore's" longtongue; Doolittle's golden; all selects. Carniolans mated to Italian drones when desired, No disease. Circular free.

WE are now booking orders for Providence Queens for spring delivery. Cull & Williams, Providence, R. I.

QUALITY QUEENS are the best Italians yet. Send for circular. H. H. JEPSON, 182 Field street. Boston, Mass.

HOOPER BROS.' Italian Queens reared in the West Indies are the most prolific and give the best results available any time of the year. Write at once for information to Kingston, Jamaica, B. W. I., Box 162 nov-6

#### HONEY DEALERS.

WE are always in the market for extracted honey, as we sell unlimited quantities. Send us a sam-ple and your best price delivered here. The Fred W. Muth Co., 51 Walnut St., Cincinnati, O.

## Cent-a-Word Column.

A. H. REEVES—Distributor of Root's Bee Supplies for northern New York, Beeswax wanted.

Perch River, N. Y. oct 6

FOR SALE.—UNTESTED ITALIAN QUEENS .60c each, two for \$1.00. Tested \$1.00 each.
Mrs. J. W. Bacon, Waterloo, Seneca Co., N. Y.

AGENTS WANTED-To sell advertising novelties, good commission allowed. Send for catalogue and terms. American Manufacturing Concern, Falconer, N. Y.

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INCREASE is a handsome little book telling how to form new colonies without breaking working stocks. A simple, sure, satisfactory plan, 25c. Baby Nuclei tells how to mate many queens from sections with a mere handful of bees; 42 pages, 20 pictures, 50c. Cell Getting tells how to save labor in rearing queens, 50 cents. Queen rear-ing outfits. Golden all-over and Caucasian Queens. Circulars free. E. L. PRATT, Swarthmore, Pa.

PURE ITALIAN BEES—The most beautiful, gentle, prolific, best working and, being long-tongued, best honey gatherers. Prizes—VI Swiss Agricultural Exhibition, Berne, 1895; Swiss National Exhibition, Geneva, 1896; Bee-Keeping Exposition, Liege, Belgium, 1895; Universal Exposition, St. Louis, U. S. A., 1904. The Highest Award. Extra select breeding queen, \$2.00; six, \$16.00; dozen, \$20.00. Selected queen, \$2.00; six, \$11.00; dozen, \$20.00. Special prices on larger number. The addresses must be clear navment. \$11.00; dozen, \$20.00. Special prices on larger number. The addresses must be clear; payment by postal money orders. If by chance a queen dies upon the journey, she is to be returned immediately, with a postal certificate, and another will be sent gratis. Address, ANTHONY BIAGGI, Pedeville, near, Bellinzona, Italian Switzerland. This country is politically the Switzerland Republic, but lies geographically in Italy, and possesses the best kind of bees known.

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In addition to continuing the several interesting articles by Alexander, and other noted contributors. which are running in GLEANINGS IN BEE CULTURE, the publishers announce as a special feature for the remaining issues of the year a series of articles on the

## Control of Swarming for Comb Honey Production

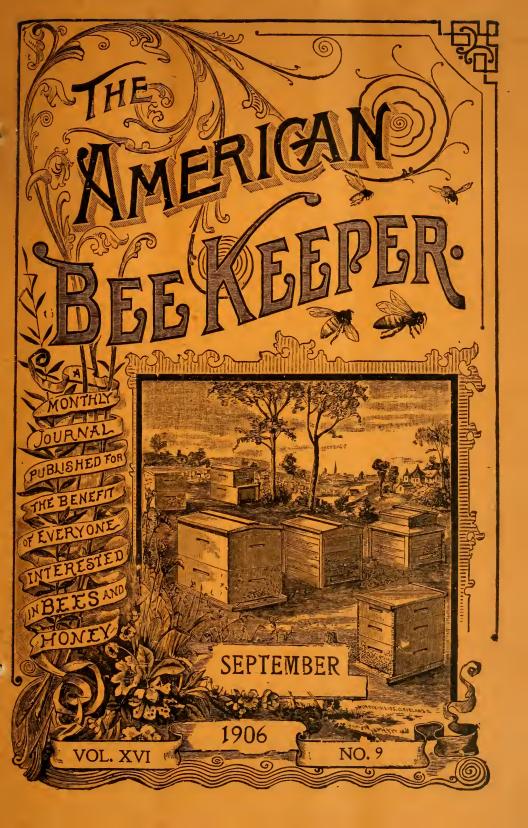
These by bee-keepers who have experimented to the point where experimenting is done, and the crown of success has been awarded.

If you have not seen the first installment of this series, send in your name for a three-number trial subscription, which will be given free of charge. The April 15th, May 1st and May 15th numbers will be mailed to you, and by June you will undoubtedly be so interested you will want to take a six months subscription at least. The special price of which will be 25c.

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## Homes in Old Virginia.

It is gradually brought to light that the Civil war has made great changes, freed the slaves, and in consequence has made the large land owners poor and finally freed the land from the original ownerwho would not sell until they were compelled to do so. There are some of the finest lands in the market at very low prices, lands that product all kinds of crops, grasses, fruits, and berries; fine for stock. find green truck patches, such as cabbage, turnips, lettuce, kale, spinach, etc., growing all the win-The climate is the best all the year around to be found, not too cold nor too warm. Good water. Healthy... Railroads running in every direction. If you desire to know all about Virginia send 10c. for three months subscription of the VIRGINIA FARMER to Farmer Co., Emporia, Va.

### A Vest Pocket Map of Your State

New issue. These maps show all the Counties, in seven colors, all railroads, postoffices-and many towns not given in the postal guide-rivers, lakes and mountains, with index and population of counties, cities and towns. Censusit gives all official returns. We will send you postpaid any state map you wish for 25 CENTS (silver.)

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this character and a character

We have been successful in closing a contract with the Selden Pen Mfg. Co., of New York, whereby for a limited time we can supply a guaranteed

## \$2.00 Gold Fountain Pen, "The Celtric Model 1"

and the American Bee-Keeper one year for only 90c to every subscriber, old or new. The pen will be forwarded immediately upon receipt of the money. It is made of the best quality of hard rubber in four parts, and fitted with a guaranteed irridium pointed 14-k GOLD PEN. The "fountain" is throughout of the simplest construction and can not get out of order, overflow, or fail to supply ink to the nib.

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It dispenses with the inconvenient inkstand and is always ready for use. "THE CELTRIC MODEL 1" bears the manufacturer's guarantee that the pen is solid GOLD, 14-k fine. If it does not prove satisfactory in every way we will exchange it for another, or return the fifty cents ad-

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This is an unusual opportunity to secure, at a very low price, an article of superior quality that is coming to be essential to the comfort and

convenience of every one. Remember this offer is for a short time only.

The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

#### SEPTEMBER, 1906.

No. 9

## Massachusetts Bee-Keeping in 1644.

Supply Manufacturing Before the Days of New-Fangled Fixtures.—An Interesting Record.

GEO. W. ADAMS.

"subsidy" which may prove to be the earliest recognition of bee-keeping as Colonies.

The town of Newbury, Mass., received its first settlers in 1635 but so few in number that their was not finished until 1638 and the town government was hardly in definite form until nearly or quite 1640, yet in 1643 less than eight years from the landing of the first settlers in this unbroken wilderness, the question of bee-keeping had been considered officially and inducements had been held out to one John Eales, then living in what is now Hingham, Mass., to come to Newbury and enter upon the manufacture of bee hives, and to instruct the citizens in the gentle art of bee culture.

This "expert" came in August 1644, as the records have it, "To one John Davis a Renter of a farm there with ye

FIND THE following curious account expectation of his doing service which municipal encouragement or the Towne was not acquainted with." A pretty clear statement that his coming was a municipal and not a private an industry in New England or the venture. (See Mass. Archives, Vol. L,

It would be interesting to know something of the bees. Were the records not perfectly clear and definite it would not seem possible that there were any, for there are no native bees.

However, "municipal control of public utilities" was not a success, and a new board of selectmen may have withdrawn encouragement; at any rate our bee-master finding he could not make what the record calls a "livelyhood" (I like that word as applied to beekeeping), tried to "swarm out" and get back to his former home. He was getting along nicely nearly to the place where now lives Henry Alley of queen bee fame, when the constable of Ipswich hived the poor fellow in the jail, and the court sent him back to Newlature is termed, "To dispose of him." Records, Vol. 2, p. 101.)

In answer to this humble petition And so ends the history of the apiarthe order was made May 4, 1645 as ian experiment of our old town and our follows "It is conceived John Eales first pauper, two hundred and sixtyshould be placed in some convenient one years ago. place where he may be implied in his Rowley, Mass.

There he was decreed to be a drone, trade of bee-hive making and ye Towne and John Dowle and Edward Woodman of Newberry to make up what his in behalf of the Town petitioned the work wanteth of defraying ye charge Great and General Court as our Legis- of his livelyhood." (See Mass. Colony

## Bee-Hunting in the Antipodes.

## Olden Time Experiences in Far Away Australia and Tasmania Interestingly Described.

W. R. GILBERT.

THE INTRODUCTION of the frame professional bee hunter. hive and the general improvement Of course the bee that is the object trees, when he can grow honey and it has become almost universal. wax at his own door. It was different The writer gained his experience of generally involved the extermination of bee trees were essentially the same. the bees, and the liberal stinging of At that time, some years ago, in the the depredator.

much the same as those of the old-time find where they went to.

in the methods of bee culture that it of pursuit in Australia is the English has led to, have caused bee hunting as bee gone wild or rather returned to its a business to practically disappear, natural habits of storing its honey in Bee-farming can now be carried out on hollow trees. Before the advent of the such an extensive scale that it white man there was no hive forming hardly pays anyone to go out armed bee in Australia. The English bee, with ax and bucket, looking for bee since its introduction, has spread until

though, I can remember, in Australia bee hunting in New South Wales and in the old days of the gin case or log Tasmania and found that the methods hive, where the taking of the honey followed in both states in locating

uninhabited country, bees were very Once these hives had been taken it numerous and bee trees were easily was necessary to commence the whole located. Bee hunting was not followed business of raising colonies over again, as a profession, most of the bushmen unless swarms could be caught in the prefering to spend their spare time, or woods, which was often the case. Now occasionally all their time in shooting adays bee hunting is generally confined lyre birds for their tails, but occasionto the settler in the backwoods, who ally a raid was made upon a colony wants a little honey to add variety to when a little honey was required for his diet of Johnny cake and bacon and camp use. In the heavy scrubs and who perhaps has never heard of frame forests the bees must have found an hives, or has not enterprise enough to abundance of honey yielding flowers as invest in any of them if he has. The they were very seldom far from home methods followed however, are very and it was usually an easy matter to

a match box with a little flour. der them very conspicuous objects. One would then be liberated and care-squeezing. fully followed until it disappeared. Another would then be let go, if it went description. I once assisted at the in a different direction it was presumed taking of a bee tree, which "panned to belong to a different colony, and no out" very differently. It came about, further notice was taken of it. If the second bee followed the line taken by the first it was followed until it was lost, and then another would be released and so on. Half a dozen bees locality of the colony but sometimes, near home.

good supply of green boughs. Then had happened.

ets and taken home to be strained. lit and a good stock of green boughs

The modus operandi was simplicity The honey as obtained was not attracitself. A pool of water was visited tive looking; it consisted very often of about noon on a hot day, and about a a considerable excess of rotten wood, dozen of the bees, which would always squashed bees, and dead larvae besides be found drinking about that time, ants, wood grubs and the incidental would be carefully caught and placed in blow flies that got into it on its way A home. It invariably had a peculiar slight shaking of the box would powder taste, probably derived from the the enclosed bees plentifully and ren- quantity of bee juice that it acquired during the process of straining and

All bush honey, though, is not of this too, in a curious way. writer and two others were engaged in prospecting for gold on a small creek, a bee flew up and settled on the neck of one of the party. A vigorous flip sent would generally suffice to show the it into the prospecting dish, and the next minute it would have disappeared especially if water was scarce, and they beneath a shovelful of gravel had not had traveled some distance for it, the one suggested that as there was more the whole dozen would prove insufficient. likelihood of finding honey than gold, we Bees covered with flour always fly low had better turn our attention to that. and slowly and their pursuit through a There were many bees drinking at pools country filled with lawyer vines, named on the little creek but the bee in the from their sticking propensities, and prospecting dish was the nearest at swarming with snakes, makes it highly hand so it was captured, and as there interesting. When the bee begins to was no flour a filament of thread from rise into the air it is a sign that it is a time worn shirt sleeve was tied to its hind leg. After thundering about When the hive was found the first and turning sumersaults on the ground proceeding was to light a fire and cut a for a few mintues, it took wing and flew up the hillside for a few hundred axes and saws were got to work and yards and then rose in the air and disthe tree cut down, one of the party appeared near a huge dead "woollyusually waiting by the fire to throw butt' stump, about 60 feet high. Inon the green boughs when the tree fell. vestigation showed that the stump was The object of this was to raise a dense literally full of bees. They were flying smoke into which all hands promptly in and out by hundreds at a hole near retired when the bees, disturbed by the top, while the whole trunk hummed the cataclysm that had overtaken their and vibrated like a telegraph pole community, issued forth to see what The bees seemed very savage, too, which is generally regarded by bush-When they had settled down a little, men as a sign that there is a lot of the tree was chopped open if it had not honey in the hive. Next day all hands broken up in its fall, and the best of turned out with axes and coal oil tins. the comb put in coal oil tins and buck- When the tree was reached a fire was

cut, and when all was ready axes were easily found at sunset, as the bees flygot to work. After half an hours chop- ing in the sunlight with the dark belt ping the huge stump tottered and fell of trees as a background become irismashing into multitudinous fragments descent from the play of the light upon and liberating dozens of scorpions, them. If the spot toward which the centipedes and bull-dog ants, which bees converge be carefully noted, the stampeded in all directions. sight of what lay upon the ground was bee lit up by the slanting rays of the one to gladden the heart of the bee sun and flying against a background of hunter. Tier upon tier of white virgin leaves, upon which the shadows have comb, filled with honey backed up by already fallen, may sometimes be masses of brown comb, black with age. watched for half a mile, as it seems to

most vicious bees I have ever seen, stantly. They charged into the smoke and stung away.

Bees were very numerous all over Tasmania, and there was probably no wriggliing mass of bees burst a hole in part of the island where bee trees the shirt, and they began to come out, could not be found. On the Gordon a hat full at a time, darting about with river I saw a hollow pine limb which the peculiar high-strung buzz which had broken off from the weight of honey means mischief. The rest of the jourstored in it. All round the border of ney over the water was accomplished the button grass plains bees are still in brilliant time. To go overboard was very numerous, and in the spring trav- out of the question. To throw the bees eling swarms may often be heard on still days.

the wild bees are so numerous, that plainly precipitated all the bees on to they form a serious drawback to bee- the floor of the punt. While I rowed, keeping in a business way, as they as never before or since, my friend completely empty every flower of nec- frantically waved a vest in the air, and tar and prevent the domesticated bees knocked the bees into the water. The from following their duties.

plains bee trees are sometimes very Medicine Hat, Alta., Canada.

But the abode will always be found near it. No one waited to feast their eyes on get larger the further it recedes from the spectacle, however, for out of the the observer; once, however, it enters broken stump there came clouds of the the shadow of the trees it vanishes in-

Once when shooting in Australia we with fury. Even blazing branches did came upon a splendid swarm of bees not deter them. One of the party took upon a low shrub. As my companion to his heels and as generally happens was a great bee-keeper, he wished to got badly stung. Those who stood take the swarm and having nothing quite still and let the bees dart at them better at hand he took off his shirt, came off best. Finally a fire was lit to tied up the neck and wrists and shook the windward and when the smoke had the bees into it. He then tied up the driven the bees away the best honey bottom, shouldered it and started for was picked out. The tree yielded 16 home. Part of the route lay across gallons of pure virgin honey, and as about two miles of tidal lagoon, swarmmuch more was wasted. Shortly after ing with sharks and the means of conthe fall of the tree the bees clustered veyance was a little punt just capable upon an adjacent bush and then went of holding two men and the shirt full of bees.

About the middle of the lagoon the out would have made matters worse as the hole in the shirt was underneath. Bee-keepers sometimes complain that and any attempt to lift it would have journey across ended the bees were On the edges of the button-grass left in full position of the punt.

#### WHY DRONE COMB IS BUILT.

A Discussion of the Subject in Reply to Mr. Atwater's Request.

A. C. Miller.

MR. ATWATER in the August AMERICAN BEE-KEEPER asks why "in an extra good season, with extra strong forced swarms with queens less than a year old mostly drone comb is built."

answer it in conformity with general belief I should attribute the bees' acnamely, worker, drone or "store", ing. queen, and "accommodation" or "trans- When drone comb is being built we ition" cells. These are classed accord- find that the clustering is less compact ing to common custom, but more prop- and that consequently each builder is erly we should combine queen cells with subject to less pressure, and hence "worker" and "drone."

by a normal swarm and forms the find loose clustering, the cause thereof greater per cent of all comb in a colony differing in the different cases but the The cause of the shape of the worker result is the same. It is not necessary cell, hexagonal, has been explained by to analyze them here for any observant various writers and need not be re-person can go directly to the bees and peated here further than to say that see. each building bee tends to construct a cylindrical cell.

"swarm" has spent itself, hence the ducing drone or worker comb. drone cells around the edges of the The cause being known, it is up to

combs and those combs at the outside of the cluster (i.e. the last built); in a colony having a failing queen; in a queenless colony; during an excessive honey flow; and during high temperature coupled with great humidity.

Obviously some general condition must exist within the colony under each of the above mentioned states. What is it?

A normal swarm clusters very compactly, Each comb builder is closely The question is suggestive of much crowded by other comb builders, each interesting speculation. If I should is forced to work in a small radious, resulting in the constructing of a cylinder of a small diameter, i.e. the tion to their wisdom or reasoning pow- worker cell size. Do not misconstrue ers, but I will not dismiss it in that off- this into meaning that a single bee hand way. I have never been able to builds a complete cell. Each bee works get convincing evidence that bees rea- subject to a certain external pressure son, on the contrary I am strongly of and no matter what cell it works at it the opinion that they are little if any is circumscribed in its labors by that more than reflex machines. We find pressure. This close clustering may be that bees build several sorts of cells, called the normal or prevailing cluster-

"accommodation" cells, and so have works in a wider radius. This radius is but three sorts. As "accommodation" limited by the size of the bee. The cells, are but the result of extraneous comb builder, as we observe her within forces acting upon the normal construc- a glass hive, moves frequently and aption process we may, for the purpose pears to work in a most desultory way, of this article at least, consider honey- but we there see her freed from the bees' comb as of but two sorts of cells normal pressure of the cluster. Under all of the conditions mentioned above Worker comb is the first type built as being productive of drone comb we

The bee is a graving tool mounted on jointed levers. According as these Drone comb we find is built under levers have free or circumscribed moveany of the following condititions: after ments does the graver, the mandibles, the first rush of comb building by a describe a greater or lesser arc, pro-

the bee master to so manipulate the bees as to secure the result he desires. Providence, R. I., Aug. 10, 1906.

#### Bee Inspector's Report.

County Inspector Bowen made a report to the suprvisors last week. In his report he stated that several beekeepers at Selma had refused to obey the law with regard to foul brood, and that they would not permit him to carry out the law. Now these bee-keepers say that Mr. Bowen does not know what foul brood is, and that he has in many cases destroyed bees that were not affected with foul brood. The law under which the bee inspector operates gives him too much latitude. He can destroy a man's property at will, whether there is any legitimate reason for it or not. And there is no recourse for the man whose property has been destroyed. We are of the opinion that these bee-keepers at Selma would not object to complying with the law if there were no question about the bees there having foul brood. It very often happens that where officials of this character are appointed that politics enter into the matter to a large extent, and as like as not men are appointed to positions to do work they know very little about. From what we have been hearing about the work done by Mr. Bowen and also by reading his reports, we have reached the conclusion that he could easily be replaced by a man who would be more satisfactory.—From the Kingsburg, California, Recorder, edited by P. F. Adelbach, formerly editor of the Western Bee Journal.

#### Bees and Red Clover.

Mr. Frank Kelly, of Elgin, Co., Ont... genious system of ensuring the fertil- Pensacola News.

ization of the red clover blossoms. He pays the boys of the neighborhood 25 cents for every bumble-bee's nest they locate for him. This he then moves to his own premises. verts over the nest a funnel shaped screen, with a small hole in the top leading into a little box. By stirring up the bees he gets them all into the box, and then takes up the nest and transports bees and all to some convenient spot on his farm. In this way he has almost "cornered" the bumblebees of his neighborhood. In winter he protects them from mice by putting over the nest an oblong hardwood box, say 20 inches long by 10 or 12 inches wide, and the same height. hole, protected by a peice of tin to prevent mice gnawing it larger, permits egress and ingress of the queen. As a result of his pains, Mr. Kelly grows large fields of clover seed, averaging 4 or 5 bushels per acre. Those living near him get good crops of seed.

Mr. Kelly related an interesting experience of one year when he had pastured with sheep a field of red clover. taking the sheep off June 15. The second crop blossomed beautifully and the neighbors declared it the finest they had ever seen. It was, however, a little too early for the bumble-bees, and no seed worth mentioning was secured.-Farmers' Advocate.

"One forward step that gives sure foothold on the track

"Is worth two steps ahead where one slides three steps back"-Ruchert.

#### Florida Honey.

A sweet cargo was carried into Mobile by the coast steamer Tarpon which completed a round of numerous ports of call. Among the hundreds of items of cargo were fifty-one barrels of honey which had been collected from is a farmer who makes a specialty of the various ports and which were consheep and clover seed, and also keeps signed to parties in New York City. bees. He recently described an in- This is distinctly a Florida product.-

## Caring for the Comb-Honey.

## Important Suggestions and Advice Relating to This Seasonable Subject.

#### ALLEN LATHAM.

however that I not long ago viewed a rank taste. crop of magnificent comb-honey (perknowledge about this matter.

of an old building much shaded by large midity is always low. appletrees. There was but one window

folly of the proceedure followed by this honey. bee-keeper.

T WOULD SEEM as if the matter of absorbs foreign matter, as moisture caring for the crop of comb-honey and odors. A few days in a moist after the removal from the hive had atmosphere will cause a saucer of honey been given ample attention, and I rather to become as thin as newly gathered hesitate to take upon myself the task nectar, and a short exposure to smokeof offering anything new. It chanced tainted air will give the same honey a

Thus it is imperative that honey be haps four weeks off the hive) in the kept in a dry atmosphere, and it be process of deterioration from improper kept in a pure atmosphere. It is not care. If the man capable of harvest- enough that one of these conditions be ing such excellent honey did not under- present; both are necessary for the wellstand the proper care of it, then surely keeping of honey at all exposed. Few many a bee-keeper is in need of more honeys there are but will improve in weight and flavor if kept where the air This honey was in an upper chamber is pure and sweet, and where the hu-

Too much stress has been laid on and the room was damp almost to keeping honey in a warm place, resultmoldiness. I picked up a beautiful ing in making warmth rather than drysection of honey, which, as I turned it, ness responsible for good results. dripped from the cells next to the wood. Warmth in itself is of no value at all in I called the attention of the owner and improving the flavor of honey. Honey, he acknowledged that the room was too that is comb-honey, always improves in damp; said he: "It has been so rainy the cold months of January and Februthat the room does not dry out. I shall ary; months when the humidity is low, start up that stove tomorrow and dry but months when we often get our zero it out." The stove was a large oil- weather. Honey is more than likely to burner standing in one corner of the lose its quality during July and August the hottest months of the year, but I made no reply to that answer. I months when the humidity is often exwas too much astonished to reply. But cessive. It is thus important that we I have thought much about it since; get to the root of the matter, and unand I wish to show through the colums derstand that dryness and not warmth of the American Bee-Keeper the is the essential in the proper keeping of

Yet it is true that warmth helps. In the care of comb-honey, or any Why is this? Permit me to explain. honey, we must keep constantly before Air has a great affinity for water, takus the fact that honey very readily ing it up at all temperatures, but not equally fast at all temperatures. Air ranged this is seldom necessary. Let cent, or has reached its dew-point. It range is excellent. objects.

Since warm air has a greater capac- would normally ity for moisture it usually has a drying the west. then look out for the honey.

To return to the oil-stove. stove had no chimney opening outdoors ment. as does a stove to burn wood. All the stove was started up.

stove. Not only is the air caused to moisture to it. become more moist, but there will ineat it.

The honey-room may be heated with you enjoy eating yourself. an ordinary stove, but if properly ar-

at zero degrees will take up but little the room be so situated that its walls water, while air at 100 degrees will will generally be warmer than the out take up a great deal. Warm air may side air. A southern exposure, withbe dry air while the same air with an out shade will give this result. Alequal amount of water in it will be wet most as good results will follow if the if allowed to cool. At all temperatures room is adjacent to another room in there is a maximum capacity for water which there is usually a fire. A room vapor, and when that capacity is satis- adjacent to, but not opening into, the fied the air has a humidity of 100 per kitchen which is warmed by the cook-This room should will then give over moisture to colder open outofdoors by a screened window; a window into which only dry winds enter, usually to This window should be tendency. Hence it is that honey kept closed if a rainstorm should come from in a warm room tends to improve, for the dry quarter. Under these condigenerally the cause for the warmth of tions there might be-would almost this room brings about a condition of surely be, days when the honey would warm air with low humidity, but if go back slightly, but the majority of perchance the warmth of this room is days would carry it further forward attained at the expense of this low hu- than would the poor days take it back, midity, and the warm air is humid air, so that ultimately it will improve. An experience covering over a score of This oil- years warrants my making this state-

Under conditions such as were products of combustion, when this oil- brought about by the oil-stove, the stove was burning, simply poured out honey and other objects in the room into the room. Suppose that the stove would in the nature of things cool more consumes a gallon of oil in heating the rapidly than the air. The warm air room. In doing this it will throw off would then be cooled by the objects in into the air one and one-half gallons of the room, and the honey would collect water, probably more. The air will be a dew exactly as does an object out on temporarily drier because the extra the ground at night. But under the warmth will raise its capacity for water conditions which prevail in the room but as soon as this warmth is lost the whose walls are warmer than the outair is damper than it was before the side air, far different things would happen. The cooler air would then come Never, never, undertake to warm up against the warmer honey, and would the honey-room by means of an oil- take moisture from it rather than give

Too much connot be said in favor of evitably escape into the room gasses putting out only honey that tastes which will taint the honey seriously, good. We may think up all sorts of even to the extent of rendering it so schemes for getting people to use more unpalatable that most people would pre- honey and for enlarging the market for fer to go without honey rather than to honey, but after all there is only one which is at the head. Sell honey that

Norwich, Conn.

## Massachusetts Field Meeting.

Held at South Byfield by Bee-Keepers' Society, August 11th, Largely Attended.

THE FIELD meeting of the Mass- preparation for practical demonstraachusetts society of bee-keepers at tion. the apiary of George W. Adams, South Soon after noon the people were



MASSACHUSETTS FIELD MEETING.

Beginning at the left, first is Mr. Adams, then President Farmer and Treasurer Jepson. Farther back, with straw hat and veil, is Mr. Read, next to whom stands Mr. Knight—the gentleman with cap and holding the comb. Mr. Richardson is seen operating the hive, while Mr. Barret is at the extreme right.

cess.

the 10:10 train, taking the trolley at of. Ipswich for the Highfields, while every brought people interested in aparian and also coffee, milk and fruit punch. matters.

A delegation headed by Mr. Richard- the courtesy of President Farmer. son, the well-known expert, arrived early in the forenoon to assist in the by the president who introduced Capt,

Byfield, Aug. 11th, was a decided suc- called together by music on the cornet and after listening to several pleasing Over forty members left Boston on selections, a basket lunch was partaken

Mr. and Mrs. Adams furnished rolls, car during the earlier part of the day salad, cake, and pie to all who wished,

Ice cream was served to all through

After lunch a brief address was made

Charles Knight, of Haverhill, who subjects.

A very interesting period of the working colony in the apiary. meeting then followed where groups held at the same time.

"clinic" was opened by Mr. Richardson enthusiast in his work. of West Medford who demonstrated the Alexander method of increase upon a sociation are as follows: colony-much to the astonishment of the bees.

The veneralble John T. Gould, who has handled bees more than 70 years, and who sent into Boston the first pound section of honey ever sold there, told how he made \$1000 in a year from Boston. less than 50 colonies. Mr. Gould is close to the century mark and when he stepped up to the operating table upon which a large swarm of excited bees A Convenient Method for the Queen had just been placed, some of the attendants stepped quickly to assist, but motioning them aside, the venerable bee master removed the cover and showed that his hand had not lost its cunning.

made the greater excitment), and at ways of doing things. and active. It was decided, however, stock pure. that the man who shook all the bees room by the spectators.

Mr. Adams furnished seven colonies spoke most interestingly on technical for experiment. The demonstration closed with operative work upon a

In connection with the meeting the would form around the several noted members of the association had the opexperts present so that demonstration portunity to inspect Mr. Adams' apiary, and discussion on various subjects were which is one of the largest and best in the state. Mr. Adams carries on his The strains of "the assembly" on the work for the scientific study of the bee cornet recalled all to the shade of the as well as incidentally the raising of trees on the lawn where an operating some of the choicest honey in the comb table had been improvised and the that is raised anywhere, and he is an

The officers of the Massachusetts as-

President-F. H. Farmer, Boston and Littleton.

Secretary-Mrs. Florence Richardson of West Medford.

Treasurer-H. H. Jepson, Boston. The meetings are held monthly in

#### QUEEN INTRODUCTION.

Rearer.

#### W. E. Crayton.

E DITOR AMERICAN BEE-KEEPER:
Among the numerous hobbies of my life has been the bee hobby; an in-Other demonstrations were made by fatuation of some twenty-two years experts from various parts of New standing and still losing none of its England, and then followed a most ardor. During that time I have tried amusing "Queen hunt." A colony to keep at least within speaking diswould be placed upon the table (and if tance of modern methods, but have not the attendant shook them up a little it had time to try all the newfangled

the word "Go" the contestants opened I keep about fifty colonies, as a side the hive and sought to find the queen, line, which are manipulated mostly for while timekeeper and referee watched, extracted honey, bees and queens; the and the crowd offered jocose advise and honey for the local market and the bees counsel. There were five entries, but and queens to supply the requirements no record time was made, the swarms of my bee-keeping friends who have being very large and the queens young not the time or patience to keep their

My method of introducing queens in out on to the table was given the most my own apiary may be as old as the hills (some of them) but I have never

seen it described. It has been so successful with me that I wish to give it one, I am yours for the most honey, publicity for the benefit of amatuers who are often perplexed about a safe and easy way to introduce queens when improving stocks of hybrids or replacing old queens.

My queens are procured by saving cells from the best honey gatherers among the brightest golden Italians during the swarming season. They are hatched and mated from two and threeframe nuclei in eight-frame hives placed in pairs so that if one nucleus is removed the returning bees will find a home in the other. If one queen is sold and I do not wish that nucleus to rear another queen, I unite the two in just twenty-four hours from the time the queen was removed, by simply placing the nucleus with the queen on top the one without a queen, the bottomboard of one and the quilt of the other being removed so that the bees come directly together.

requirements, either in thrift, color or one and a half hours, skimming often. merrily on, with only a loss of twenty- strongly. experience. I have never lost a queen wine and beer would be injurious. or seen a "scrap" by this method.

Hoping this will be of use to some the prettiest bees with the least labor and expense.

Lima, Ohio.

#### MEAD.

#### L. E. Gateley

WONDER how many bee-keepers in this country would have a good stock of mead on hand should some thirsty-looking individual chance drop in one of these dusty, hot days and order a drink.

And yet, there is no other product of the apiary that will yield one-tenth the profit that will mead. Here are the figures, see for yourself:

One quart honey	.20
Five gallons water	.00
Total	.20
Retail 5 cents a pint, 40 pints	\$2.00
Less	.20

Profit on five gallons \$1.80 To make: Put into a clean boiler In like manner, if I have a queen five gallons soft water. When hot, add whose progeny does not come up to my one quart pure honey. Boil gently for amiability, I remove her during the Empty into earthen vessel and when warm part of the day and in just blood warm pour into a clean cask. twenty-four hours, from that time, the The bung should be put in loosely. If cover and cloth is taken off the queen- the cellar is warm, fermentation will less hive and the nucleus, containing begin in from five to fifteen days. the queen I wish to introduce, is lifted After fourteen days fermentation, draw from its bottom board and gently placed off into another cask, leaving the dregs. on top. In about four days (no hurry) In the second cask fermentation should the upper combs can be taken off, one be allowed to go on from ten to fourat a time, and the bees shaken down in teen days. When the mead is calm, so front of the hive and the combs given that nothing more is heard in the cask, to other nuclei; or, if the honey season close the bung. Allow thirty days for is not over, this upper hive may be the mead to clear, then draw off into filled with extracting combs or sheets bottles, cork well and pack in sand. It foundation and the work goes will effervesce in a few days rather

four hours egg-laying by the one queen This is the honey mead of the ancient and none by the other. There is no Germans, who attributed health and worry; only half as much queen hunt- great age to its use. It is a delightfully ing; no caging and not the least inti- cool and refreshing beverage, and can mation of a fight. At least that is my be used in case of fevers, etc., when

Fort Smith, Ark.

#### BAD EFFECTS FROM STINGS.

Addison F. Luther, father of Sterry K. Luther, town clerk of Johnston, is at home in a weakened condition as the result of a horrible experience. He was attacked by bees and was almost stung to death. For almost an hour he was unconscious and only after heroic treatment on the part of Dr. Robbins did he recover consciousness. Yesterday his condition was somewhat easier and he is now considered out of danger.

Mr. Luther's son owns a large apiary. · There are in all about 33 colones of bees each colony having in the neighborhood of 50,000 of the busy little bodies. was while one of the hives was being removed that Mr. Luther was attacked. He was prepared to withstand the bees' displeasure somewhat, having placed a veil over his head and put stockings over his hands. There were several of the bee-hives to be moved and the town clerk was assisting in the work.

The task required that the hives be carried some distance, and while this was being done several bees alighted on the wrist of the elderly man. He howled, but hung on to the hive, knowing that to allow it to fall would mean an army of angry bees in the air in an instant.

It appeared that there was an organized attack on the man. His son was not molested, although he wore no covering on his hands. When the hive was seated Mr. Luther, Jr. advised his father to run into the barn. This, evidently was the intention of the man, as he understood the nature of bees and knew that they would not enter the place. The bees stayed with him and his great pain caused him to waver from his intended course. He encircled the barn and ran half way to the house and then retraced his steps.

All of this time he was being stung and for a minute he faltered and was the honey. I found one third-story about to fall, and then he ran to the hive with combs built in every imagin-

house. He threw open the door and fell unconscious on the floor of the kitchen.

Mr. Luther, Jr., followed his father and, with the assistance of Mrs. Luther, local remedies were applied, but with no result. The pulse was very weak and there was danger of the man quickly succumbing. No time was lost in calling for physicians.

Dr. Robbins was in the village close by and he made haste to respond. It was a half hour after the physician arrived before there was any signs of returning consciousness. When the man did recover he seemed to have an entire lapse of memory. He neither knew the day of the week nor where he was. It was several hours before he regained possession of all his senses, but then his heart action was weak and he has not fully recoved from the experience.

His recent experience is not the first severe one he has had with bees, as each time he is stung he is badly poisoned. He would not have undertaken the task of removing the hives did he not think that he was fully protected, but the stockings on his hands appeared to have been no hamper to the bees. As far as learned his wrists were the only part of the body where he was stung.-Providence (R. I.) Tribune, July 14.

#### HONEY CANDYING IN THE COMBS.

Emporium, Pa. August 7th, 1906. EDITOR AMERICAN BEE-KEEPER:

I notice on page 174 some discussion in regard to new honey candying in the comb early in the summer. On May 22nd I visited an out apiary and prepared the colonies for the white clover flow, giving each colony one, two, or three extra hives of full-frame foundation according to the strength of the colony.

On July 9th I went again to extract

able direction, and all nicely sealed. Inadvertently I had placed a hive there without foundation. Over half of the honey was badly candied. I think this is the explanation: That colony had forty or fifty pounds of honey left over from last season. As the brood nest the bees carried that old enlarged, honey into the upper stories and the worked-over honey candied again.

> DELE COLLINS, Ph. D., Queen Breeder.

The AMERICAN BEE-KEEPER, ·four years, one dollar.

#### Muncy Valley Bee-Keepers.

In The Bee-Keeper for August was published a report of the convention of the Muncy Valley (Pennsylvania) Bee-Keepers' Association; and, as stated on page 161 of that issue, we received too late for publication a photograph of a number of members, including Messrs. Merrill and Fuller, who participated in a queen-hunting contest in which Mr. Merrill won-finding his queen in just one minute. The picture is reproduced herewith, together with a key, as follows:



MUNCY VALLEY BEE-KEEPERS.

No 1, Willis Fuller; 2, F. C. Rickolt; 3. Elmer Woods; 4, Chas. Rickolt; 5, W. P. Merrill; 6, Russell Fuller; 7, Rev. L. D. Woods; 8, R. E, Merrill, the winner.

## Government Pure Food Efforts.

'HE COMMISSION appointed by the the rules and regulations for the Foods Secretary of the Treasury, Secre- and Drugs Act respectfully invites intary of Commerce and Labor and the terested parties to appear before the Secretary of Agriculture to formulate commission, either in person or by proxy

or by written briefs, for the purpose of character and extent of the proposed regulations. In order that these suggestions may be presented in a system- be used. atic and compact manner and that economy of time may be secured, the be secured following syllabus is offered:

GROUP 1-ORIGINAL PACKAGE, PREPARED ing" and "staining." FOR EXPORT, ETC.

1. Definition of "original package" (section 2 of the act and subsequent sections where the phrase may occur).

2. Preparation of food products for

export (section 2, proviso).

- commerce where preservatives are applied externally (section 7, paragraph 5, under "In case of food" proviso).
- any putrid vegetable substance, or any patrid animal substance not covered by the meat regulations, Order No. 137, Bureau of Animal Industry, and other suggestions relating to the proper in- leading." spection of raw materials used in manufacture.

GROUP 2- COLLECTION OF SAMPLES.

- 1. Collection of samples, certification of samples, division of samples into different parts.
- 2. Branding, marking or tagging of samples, sending of samples by express or otherwise.
  - 3. Size and number of samples.
- 4. Method of procedure to secure identity of samples in examination. Methods of identifying and certifying the results of the examination (section 3 and first part of section 4).

GROUP 3-HEARINGS AND APPLICATIONS.

- 1. Hearing before the Secretary of Agriculture, character of hearings, appointing of times and places of hearings.
- 2. Publication of the results after judgment of the court (section 4, last half).

GROUP 4.—USE OF COLORS, FLAVORS AND PRESERVATIVES.

1. Kinds of colors to be permitted.

- 2. How freedom from poisonous or offering suggestions relating to the deleterious properties may be deter-
  - 3. Purposes for which coloring may
  - 4. How freedom from imitation may
  - 5. Difference, if any, between "color-
  - 6. Mixing, powdering and coating to conceal inferiority.
  - 7. Preservatives in food-kinds and quantities (sections 6 and 7 under Confectionery; section 7, paragraph 4, under "In the case of food").

3. Preparation of food for interstate GROUP 5-MISBRANDING OF FOODS AND DRUGS.

- 1. What is the label?
- 2. Separation of the label from de-4. Method of securing freedom from scriptive and advertising matter printed on the package.
  - 3. Size and character of the letters in the principal label.
  - 4. Definition of "false" and "mis-
    - 5. Definition of "imitation."
    - 6. Deception of the purchaser.
  - 7. Variations to be permitted in statement relating to weight or measure.
  - 8. Character of designs or devices of pictorial character of any kind which may deceive or mislead (section 8, first half.

GROUP 6-MIXTURES, COMPOUNDS, IMI-TATIONS AND BLENDS.

- 1. Definitions of mixtures, compounds, imitations and blends.
  - 2. What are "like substances?"
- 3. Definition of "harmless" as applied to coloring and flavoring.
- 4. Definition of coloring and flavoring (section 8 under first part of second paragraph under "In the case of food")

GROUP 7-PROPRIETARY FOODS.

- 1. Definition of phrase. Proper method of preventing use of added unwholesome ingredients.
  - 2. Definition of trade formulas.
- 3. How far is the disclosure of trade formulas necessary to secure freedom

from adulteration or misbranding?

GROUP 8—DRUG ADULTERATIONS AND
MISBRANDING.

- 1. Definition of "imitation."
- 2. Application of the standards of the Pharmacopoeia and National Formulary.
- 3. Method of stating proportion or quantity of alcohol and other ingredients required to be named in drugs, including size of letters, etc.
- 4. Method of stating standard of strength, quality or purity when not the same as in the Pharmacopoeia.
- 5. Method of stating the professed standard or quality under which a drug is sold.

(Section 6, first half; section 7, under "In case of drugs," first and second paragraphs; section 8, as applied to drugs)

#### GROUP 9—CONFECTIONERY.

- 1. Definition of confectionery and list of substances to be construed as confections.
- 2. Definitions of the terms "terra alba," "barytes," "talc," "chrome yellow," "narcotic drug."
- 3. Kinds of colors or flavors permitted and methods of control or preventing the addition of any deleterious or poisonous ingredients at the time of manufacture (section 7, paragraph under "In case of confectionery."

GROUP 10—ESTABLISHMENT OF GUARANTEE.

- 1 Suggestions respecting the form of a guarantee.
- 2. How to be signed, by printed or written signature, and by whom.
- 2. Method of identifying the articles covered by the guarantee, either by stamps, tags or otherwise.
- 4. Methods which the purchaser should follow in order to establish the identity of the articles and secure the application of the guarantee (section 9).

  GROUP 11—INSPECTION OF IMPORTED FOODS.
  - 1 Securing samples for inspection.
  - 2. Notice to the importer.

- 3. Character of the hearings of the importer before the Secretary of Agriculture or his agents.
- 4. Reshipment of condemned articles beyond the jurisdiction of the United States.
- 5. Form of bond to secure the United States against the sale of goods before the notice of condemnation by the importer is received.

#### GROUP 12.

Miscellaneous suggestions.

The following provisional assignment of groups for discussion is made:

Groups 1 and 2, September 17; groups 3 and 4, September 18; groups 5 and 6, September 19; group 7 and 8, September 20; groups 9 and 10, September 21; groups 11 and 12, September 22.

By courtesy of the New York Board of Trade and Transportation, the hearings will be held in the board rooms of that organization, Mail and Express building, 203 Broadway, New York City. The sessions will begin at 10 o'clock a. m. and adjourn at 12; open again at 2 p. m. and adjourn at half past 4. Extra hours may be assigned in case of necessity.

All persons who appear before the commission are requested to have briefs prepared covering the points which they wish to discuss, so that the written briefs may be filed for the further consideration of the commission.

It is requested that each person who desires to appear before the commission file with the chairman of the commission, Dr. H. W. Wiley, Washington, D. C., on or before the 10th of September a request for hearing, stating the group, or groups of subjects on which he wishes to be heard and the time he expects to consume. These data are necessary in order that a program may be arranged which will be just to all parties desiring to be heard. The commission wishes to state further that it does not desire to hear any arguments relating to the constitutionality of the law or any portion thereof, nor to

points of a legal nature save such as by the law.

to submit suggestions.

JAMES L. GERRY, Treasury Department. S. N. D. NORTH,

Department of Commerce and Labor. H. W. WILEY, Chairman,

Department of Agriculture. Committee on Rules and regulations, Foods and Drugs Act.

Washington, D. C., August 12, 1906.

#### A PECULIAR CASE.

E DITOR BEE-KEEPER:
On the 30th of May I shook the bees from my pet colony whose queen had, at that time, 20 frames of brood and a super well under way. colony had produced three 32-section supers and had two on the hive practically filled. In addition to the brood removed at the time of shaking, three frames had been removed to supply larvae for queen cells.

Now there is a condition about this colony that I do not understand. The queen was one year old early this spring. On the fifth of this present clipped. When I returned home from business at noon the colony from which the swarm issued was pointed out to queen should be superseded. frames examined. There was a dozen the bees onto sheets of foundation.

to seal, but the ten frames were filled conditions. with sealed brood

It occurred to me that the queen had may pertain to the scope and character been superseded and the swarm of the rules and regulations authorized emerged at the same time. But the question arises, why did not one or The officials charged with the en- more of the virgins go with the swarm forcement of the State dairy, food, which returned to the old hive after it and drug laws are specially requested had clustered for a few minutes. Is it a common occurrence for a colony to supersede and swarm at the same time?

> There was two supers on the hive that were about half drawn out. These bees are the golden Italians that I believe you do not think favorably of. Last season 1 removed 150 perfectly filled sections and 20 partly filled which we used on the table. Last season no swarm issued from this colony and the queen kept 20 frames filled with brood most of the season. I have removed from that colony this season 33 frames of brood and they now begin on 10 more frames of foundation. It seemed to me there was a bushel of bees in the hive when last shaken.

> I am pleased to receive THE BEE-KEEPER after missing it for two or three months.

> I enclose the address of a few parties who have recently started bee-keeping. Yours truly,

> > E. H. DEWEY.

Great Barrington, Mass., Aug. 7, 1906.

The conditions named are indeed exmonth a swarm issued. The queen was traordinary, though we think it is, doubtless, a case of supersedure; yet it is difficult to conjecture as to why such a me. The supers were removed and the days of bad weather immediately preceding the issuing of the swarm might or more queen cells. I placed the old explain the presence of the virgins, body to one side and proceeded to shake even though the swarm were otherwise a normal one. Possibly, one of the Three virgins were found in the oper-virgins, having issued with the swarm, ation, but the old queen could not be may have met with an accident, thus found either in the hive or in the grass necessitating the return of the bees, outside. There was not an egg in the though usually more than one of them hive and only a few cells of brood ready issue with the swarm under such con-Suggestions from readers are invited.—EDITOR.

## Scent, Queen Rearing, Etc.

C. W. DAYTON.

REFERRING TO the quotation from others it takes two months, while in fliction, whatever, between Mr. A. C. weeks." Miller's scent, or, to be more exact, lack of scent, theory and my own, as est to develop fertile workers were described on page 109, and which be- the easiest to introduce a queen into. portant factor.

characteristic scent of the individual Here is a wide range of bee nature. colonies as having a bearing on queen introduction while the other argued plan was to, at once, shape the dispothe question of scent as possessed by sitions of the bees to accept the queen, queens which renders them distinguish- and it is called direct introduction. able from the worker bees. Two kinds particular kind of loss, is made known dom introduce queens, however. to the whole colony, communicated The method of swarm control which and disappears immediately when the have a shadow of fault, and replace queen is removed.

of 10 bees would accept the queen im- queen and drone mothers which have ways started by one or two bees at- Nearly all bee-keepers wait until spring tacking the queen and then other bees to do this. Their enthusiasm is like . join in until the queen becomes "balled" some queens egg-laying lacking in and maimed or killed. These contrary contiguity. The rush of the season bebees seem to correspond to the number ing past there is plenty of time to sit of fertile workers there would be de- in the shade, read up on the subject, veloped in the colony if the colony re- contemplate and experiment. mained queenless too long. Some colonies get fertile workers (or laying localities it is advantageous to retaid workers), in four or five days, while in brood rearing, so I introduce by cells,

the British Bee Journal on page others the bees live the length of their 175 of the American Bee-Keeper, I lives and no signs of fertile workers. would say that I do not see any con- Queenless bees live longer than "six

Those colonies which were the slowtrays the presence of scent as an im- Sometimes the fertile workers will stop laying as soon as they are given a Mr. Miller's theory related to the chance to get a queen, even in a cage.

If my memory serves me, Mr. Miller's

The other usual plan is to cage the of scent-queen scent and colony scent. queen in the colony until the queen is It seems almost wonderful how soon a of the same scent. One way seems to queen will be missed from a full colony deceive the bees and the other reduces of perhaps 50,000 bees. Sometimes in them to submission. There is a gain of Not all the bees are two days in the direct introduction attendants unto the queen. Very few. plan, and in the early part of the sea-Yet there seems to be some kind of son two days are of considerable molanguage by which the loss and the ment. At that time of the year I sel-

from comb to comb and to far off su- I follow requeens the colonies by the pers. If it is not language there must use of their own cells. When the harbe a sort of abiding scent that convest is over I go over the apiary and stantly diffuses itself through the hive sort out the poor queens, and any which with better ones so that the poorest In ordinary conditions probably 9 out colonies become really the best. I use The trouble is nearly al- been tested through the honey harvest.

At the close of the harvest, in most

and infirm men into the army. If they to eat pumpkins. Would not the friendare not sorted out somewhere they ly bees which are constantly trying to would become an encumbrance, just as feed the queen through the wires of a poor colony is an encumbrance to the apiary. It takes twice as long to manage a poor colony as a good one. And takes to rear a fine queen.

harvesting of the crop as the hard "tug of war," but in reality it is not; merely the accepting of the surrendered sword.

In the previous August or September tion of a few colonies. It may constitute the only clear profit. When a businot easy to build hopes on failures.

after awhile they accept the strangers ments. and become very friendly. Could it not

the slowest but best of all plans. If a be the same with bees? Would the bees colony comes out in the spring with a not get accustomed to the presence of poor queen I set them down as a total the queen and finally their animosity There is no time to make wear off or exhaust itself? It needs a amends then. It is like sending aged pumpkin-eating horse to teach another the cage exert some influence upon the angry ones?

I have known queens to be caged in about as long, yes, even longer, to colonies ten to fifteen days and not be manipulate the poor colony once than it accepted. Other queens were put in and were accepted in thirty-six hours. Most of the bee-keepers consider the The rejected queens were accepted by other colonies. I have seen the same conditions in the case of domestic ani-

Another plan may be called the obit is easy to add a dollar or two per col- servation plan: Keep the queen caged ony to a crop of honey, by this correc- until the bees on the outside become friendly and the queen rushes about in the cage in a more or less frantic manness falls only a little behind expenses ner. Then pull the plug. When out, it is conducive to "the blues." It is if she stops for no carressing or "slicking up" by friendly bees, as some mis-But even by the caging plan of intro-takenly call it, but starts downward, duction, who can say that success is not plowing the bees out of the way, to more dependent upon the disposition of the lowest part of the comb to hide, as the bees than scent? When we bring a a queen in a normal colony would do, strange horse or cow into the barnyard the queen considers herself mistress of the others look askance and fretful, but ceremonies, and shows it by her move-

Chatsworth, Calif.



#### FRANCE.

SWARMS AND SWARMING.

gives the following processes to induce the bees to settle at a certain place:

At a distance of fifteen or twenty Mr. Ignatus has a long article, or yards from the hives, preferably in rather a series of articles, in La Revue front of them, are planted a few poles. Eclectique, on swarms and swarming. At the top of each one is fixed a settling Among a lot of interesting items he seat for the bees to alight on. The

dead bees sewed together so as to look woodland as here and what there is is string passing over a pulley or through dead tree is a very rare thing. Here string.

Instead of bees a piece of old comb in a bunch of weeds, or something of the kind may be used advantageously. A queen cage having been used may also be added to advantage. A kind of cover fixed over the "seat" is also considerable help as it gives some shade.

In taking down a swarm from a tree, it is not necessary to shake it down or rake it off in a box or basket. a bunch of twigs with a piece of comb inside at the end of a pole sufficiently long and bring it close to the swarm. The swarm will soon abandon its place and settle on the comb.

It is said that a limb or pole well rubbed with "melisse" (a plant of the mint family but of which I do not know the English name) will attract the bees and induce them to settle on it. The same claim has often been made in favor of lemon juice or lemon bark. The essence of lemon, according to Mr. Donde, of Algeria, is much more efficacious than the juice itself. empty hives of an apiary are rubbed with some, the swarms will often go in them instead of going to the woods.

Another receipe is quoted as follows: In a little alcohol put some dead drones or queens or queen cells having hatched. Leave them in about twelve hours. Put a little of the alcohol in water with some honey and spray the places on which you want your swarms to settle.

bee-keepers put in the woods or even it was found that small pools of juice

"settling seat" is made by a handful of that in Europe there is not so much like a settled swarm. It is hung to a carefully taken care of, so a hollow a ring so that the "seat" can be easily in Tennessee the dead trees are plentilowered simply by paying out the ful and the bees will go to them in preference to anything else.

#### VENTILATION.

A correspondent, Mr. A. Dillenseger is bold enough to say that there is no such thing as ventilating bees. That those supposed to be "ventilating" are merely young bees exercising their wings before taking flight.-La Revue Eclectique.

#### A NEW BOTTOM BOARD.

Mr. Melchior describes a new arrangment of bottom board. The walls of the hives are extended below the bottom board or floor of the hive and rest on a convenient support. The floor can be taken out and pushed back without opening the hive at the top or removing the comb.—L'Apiculteur.

#### WARM WATER FOR BEES.

It has been very often noticed in Europe that bees have a particular preference for the water or rather the juices that may be found around piles been of manure. The question has often raised why they take it in preference to clear water. It has been supposed that it is on account of its salty quality, or perhaps because it contains some nutritive substances that may help brood rearing. Mr. G. Gendot has made some experiments on the sub-

He began by fixing some troughs containing water and some containing the aforesaid juice, placed them in convenient places, baited the bees, etc., but all without success. They went for In some parts of Europe, dishonest the manure pile. Investigation made, around their apiaries empty hives around the pile being exposed to the rubbed inside with melisse and honey sun, were quite warm; a thermometer and containing a piece or two of old gave a temperature of 70° against comb, in order to attract their neight the temperature of 57°. That explained bors' swarms. It must be understood it all. A warm drink is what they want,

place; and warmed up with a small it is because the queen has ceased to alcohol lamp, so as to maintain the lay or nearly so .- L'Apiculteur. water at a temperature of about 80° or more. The bees were baited. In course of time, that is, in a few days, they were taking the warm water altogether, in place of the manure juice. A trough of water at ordinary temperature placed by the side of the warm water was practically ignored by the bees. -L'Abeille Bourguignone.

#### WAX AND COMBS.

Mr. Martin has given a series of contributions on the production of wax and the construction and uses of combs. He comes to the conclusion that the bees build combs for three reasons:

- To raise brood.
- To furnish themselves with a habitation.
  - 3. To store their provisions in.

That's clear enough, but what Mr. Martin maintains is that wax will not be secreted by the bees unless they intend to build combs for one of the above purposes.

In 1904 he had three late swarms. He gave each of them enough comb to fill one-third of their hives. (The European hives are much larger ours.) He had to feed them. took 15 lbs. of syrup and stopped. The second took 21 lbs and the third took 25. But when more empty coml s were added they resumed work at orce. Now, why did they not build combs and keep on storing? Mr. Martin says it is because they had enough provisions and the brood rearing season being over tle queen did not need room for much brood. The temperature was quite high and the weather quite dry.

Another well-known fact is also quoted: After the main flow is over, there is often a very light flow with frequent interrurtions. If the bees are supplied with combs they may give some surplus during that time. If not, they will not give any because they will not build comb at that time.

Another trough was fixed at a handy Mr. Martin insists that if they don't it

#### BELGIUM.

MOVING EGGS.

During a lecture on bee-keeping a queen was caged, in order to show some of the processes used in introducing, etc. The cage was placed in the hive between two combs, with the intention of releasing her when the series of lectures would be ended. Somehow or other, the releasing part was forgotten. Three weeks later, the hive was opened for some reason not stated and the queen found alive and in good health. The most curious part is that eggs and very young larvae found in the cells of the two combs adjoining the cage. The bees must have gathered the eggs as they fell through the meshes of the wire cloth cage and deposited them in the cells.-Le Bucher Belge.

#### Farm Papers and Bees.

Occasionally one finds an item regarding bees in the general agricultural papers that is both reliable and sensible, but such instances are the exception and not the rule. The following from the California Fruit Grower, for July 7, 1906, one of the brightest and oldest on the Pacific coast, is typical of the rule:

"Three Carnolian queen bees, fertilized in Asia Minor, were recently sent to Ralph Benton, assistant in entomology at the State University. were the first Carnolian bees to reach America alive.'

If a bee-keeper would keep up with apicultural matters he must read an apiarian journal. This is an age of specialized industry and the publication which purports to cover a number of general lines is rarely reliable in any. We once said that publishers of such tommyrot as the foregoing could give their patrons better value by running blank space, and we are of the same opinion still.

THE

#### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

#### THE W. T. FALCONER MFG. CO.

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#### HOW TO ADDRESS.

The home office of The American Bee-Keeper is at Falconer, N. Y., and all matters relating to sub-scriptions, discontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office.

Matters relating to the editorial department—

manuscripts, photographs, or correspondence in any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida.

#### DISCONTINUANCES.

The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages, if any are paid. Those who wish the paper discontinued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter.

#### SUBSCRIPTION RECEIPTS.

We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wrapper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or re-questing the paper discontinued at expiration of time paid for, as may be desired.

Some time ago John Hewitt, Sheffield, England, advertised Punic bees for sale in these columns. We have received complaints from some who sent him money, and received nothing in return. We are requested by some of his patrons to suggest caution in dealing with him.

Do your bee-keeping neighbors know that during this month they can secure the American Bee-Keeper a whole year for 25 cents, or four full years for one dollar?

Throughout southern New England the promise for a bumper crop of fall honey is excellent. Golden rod and aster plants are big, thrifty and abundant, the ground is full of moisture and colonies are strong in bees.

The Review reports a couple of instances of favorable experiments with Caucasians in Michigan during the past summer. We hereby appoint The Review a committee of one to keep tab on these experiments for a year or two, and report again.

The Southern Bee-Keepers' Association will meet at Atlanta, on the fair grounds, during the Georgia State fair, October 11 and 12, 1906. Everybody interested in bees is invited to attend, and a very interesting meeting is an-Mr. J. J. Wilder, Cordele, ticipated. Ga., is president of the Association.

The American Bee Journal says the "new bee-keepers can afford to wait and see which of the bee-papers are their real friends. The older beekeepers don't have to wait, for they know already." And the American Bee Journal spoke a gospel truth. If the American Bee-Keeper is ever found wanting in friendship, unbiased interest and determined effort for the welfare of the cause of apiculture, we respectfully request that our readers shall promptly "call us down," and we will as promptly publish the "call."

#### "Consistency."

Bee-papers are supported by beekeepers. The support is bestowed in return for the good to bee-keeping interests which the said bee-papers are supposed to render.

One bee-paper admits declining to publish resolutions of one of the largest

State bee-keepers'associations because, with the fact that during this month secure the necessary appliances for Telleverybody. running their business more economically, without paying anything in ad- There's "Something Rotten in Denmark" dition to the subscription price, to the said bee-paper. These resolutions. in a movement that had been declared the members of the committee. by a locality the scope of which hardly exceeds the limits of New York, Penn- pointed by the president, Mr. H. A. and a few others.

wanting support. The intelligence of sundry other ways working harm. the bee-keepers of America will attend to this minor point. may find a place in our columns with- discount as they claimed. out payment at advertising rates.

Our correspondence and subscription tion are asking for an explanation. list indicate that bee-keepers are capminded, fraternal purpose and very narrow selfishness.

acquaint all his bee-keeping friends membership in the society.

it claims, the said resolutions contained the AMERICAN BEE-KEEPER may be oradvertising matter. That is, the said dered for one or more years at the exresolutions might help bee-keepers to ceedingly low price of 25 cents a year.

The action of the committee of the Pennsylvania State Bee-Keepers' Assosays the bee-paper, "had mostly a local ciation entrusted with securing reduced bearing." Of course, one could not prices of supplies for the members is reasonably expect such a mighty and the cause of much dissatisfaction and is influential organ to take much interest sure to result disastrously to some of

At the time the committee was apsylvania, Massachusetts, New Jersey Surface, he had in his possession a copy of a contract showing that the New THE AMERICAN BEE-KEEPER has York societies had secured wholesale never advocated any particular line of prices for small as well as for large supplies, nor any particular manufac- quantities and the name of the manuturers. It simply suggests that bee- facturers with whom the agreement keepers pull together in that which was made was given, and assurance of promises best to serve their interests, the same terms for the members of and let the supply manufacturers and the Pennsylvania society were also bee-papers take care of their own in- given. Certain persons and manufacterests. The manufacturers and bee- turers were charged with working papers that give the most value for the against the interests of bee-keepers by investment will probably not be found unwarranted increase in prices, and in

In the face of these statements the Neither of the committee ignored the possibility of editors of this journal have the slight- securing for the society these wholesale est interest in any supply concern, nor prices, and deliberately entered into care "a cent" where bee-keepers pur- negotiations with some of the very chase their goods; but it deems it a persons whom bee-keepers have debounden duty to afford the actual pro-nounced as their enemies, and made a ducers who support it a medium through tentative arrangement for a 10 per cent which their interests may be served, discount after September 1st, which regardless of the result to any supply discount after such date has been the Resolutions of State associa- practice of these persons; therefore the tions, tending to benefit producers, committee did not secure any special Now the members of the Pennsylvania Associa-

It looks very much as if a severe able of distinguishing between a broad-shake-up was coming in that society and some prominent members will receive a grievous shock to their self-complacency Again let us request that the reader and possibly be asked to resign from

#### Profitable Market for the Small Producer

There are a multitude of persons who produce a few hundred pounds of honey to one who measures his product by the thousands of pounds, yet most of the marketing advice printed is written for the large producer who as a rule is quite independent of such help. It is the small producer who really needs the help and to whom a small increase in price means the most. To the latter we would offer a few items gleaned from many years of experience by ourselves and others.

As a rule it will be found best to deal direct with the consumer and such trade when properly catered to will yield the highest returns. To be sure it costs something in time and thought to get customers, but it is also true that the person seeking such trade has more or less time which can not be more profitably used.

The first essential is to classify your honey keeping the fine flavored, bright honey, separate from the darker or stronger flavored. All thin, unripe, or ill-flavored honey should be fed back to the bees. A little such inadvertently given out or sold may alienate valuable customers. Avoid the danger.

The next step is the judicious distribution of samples. This is not the indiscriminate giving of a small sample with a circular or leaflet attached, but the making of a "gift" or "present" so that the recipent "will know the delicacies we enjoy from our bees, it is the most wholesome sweet in the world you know." With some persons a little chat about bees will be advantageous and will result in their repeating what you say and in indirectly advertising your goods.

As orders are secured you can gradually find the special likes of each buyer, one prefering mild and another strong flavors. By careful praising of your best honeys, fruit bloom, clover, raspberry or some other kind or blend, you can secure a fancy price for it.

Regarding prices. These vary with the section of the country but as a rul e it is not difficult to secure several cents above the market price. For example the writer has no diffitulty in getting 30c. each for sections of honey from fruit bloom and for some fancy blends. The same price is secured for extracted honey of the same kinds. For clover honey and similar grades 25c is the uniform price. Dark and strong honey is not so easy to dispose of, that is to say fewer persons like it, but such as do like it are quite as willing to pay 25c a pound for it, as others are for the light grades. The average retail price for honey at the stores ranges from 16 to 22c, and extracted honey brings the same as comb.

Produce a good article, find persons who appreciate it and ask what it is worth, and gradually the demand will increase beyond your ability to supply it.

#### Bee Veils.

There are bee veils and bee veils. Mr. Miller has developed one particularly adapted for service in a home apiary and where bushes, trees and vines have to be encountered. Mr. Atwater prefers a veil more readily transported from place to place and does not have to contend with shrubbery. Thus do climatic conditions modify methods and implements.

In reply to Mr. Atwater's wish for a better wire cloth, we would refer him and all interested to that made from a "bronze" wire, which will not rust or crumble. At first it is shiny and hard to see through, but as soon as it oxidizes it is as nearly perfect as any screen can be. The oxidizing may be hastened by washing the wire with most any dilute acid.

We expect in the near future to present to readers of THE AMERICAN BEE-KEEPER something new about foul brood and bee paralysis and their treatment.

#### Keep the Dominators in Check.

Writing of the leasing of "bee range" by the Australian government, Mr.J.A. Green, in Gleanings, says: "While the provisions of the act may not be in all respects satisfactory to the bee-keepers, it may prove to be the thin end of the entering wedge that will expand men's ideas on the subject until the government takes possession of all bee territory as something separate from the land and leases, or sells it by itself. Speed the day."

If the provisions of the act are not satisfactory to the bee-keepers, whom, pray, is it intended to satisfy? there is one thing which will enable the supply men and their satellites to get the plain bee-keepers by the throat it is a statute which will permit the highest bidder or the man with the longest purse to get control by lease or purchase of the best yielding and most accessible bee ranges.

Rapidly the honey producers, great and small, are uniting, the individuals are recognizing their interdependence and in due time they will effectively govern the distribution of apiaries and do without the supply men. They have the remedy in their own hands and if the supply men try to interfere, they will find their trade vanished and they and their aids will be forced to pawn their puffing autos and buy wheelbarrows and get down to some more respectable work than doing their fellowmen.

#### Uniting the Bee-Keepers.

There is one all important and vital reason for bee-keepers' societies urging and sustaining the restriction to the soon prices of supplies which the societies have secured. It is self preservabig, must unite and nothing will cement the benefits broadcast and we are again \$1.20.

at the mercy of the schemers. Our societies will become weak, flaccid things without force or character. The mere assembling of persons with a common hobby or pursuit for social talks will not suffice to create a united body capable of securing the rights of its members. Some greater object than social assembly must exist, and in this decreased cost of supplies we have a real and a powerful one, and this will soon be supplemented with others.

Increase in membership means increased strength; increased opportunity for economies, for mental, social and material advancement.

#### Sweet Clover.

Sweet clover is a honey plant of doubtful value. Where its bloom fills a gap in the honey sources and helps the bees to keep strong for a latter and more desirable flow, it is welcome, but where it more or less overlaps the flow from plants yielding a finer honey, it is a detriment.

The honey from sweet clover has a peculiar taste suggestive of catnip tea and is particularly repellant to some persons. Pains should be taken to keep honey having much sweet clover in it separate from other honey, particularly from fancy white kinds, because it is not a first class article.

Forestry is a subject that is not only fascinating to all nature lovers, but is one also of vital importance to all Americans, while bee-keepers are especially interested in the devastation of our great forests that has been long going on, to the detriment of their pursuit. One of the most comprehensive cieties' members of the large discounts works that have come to our notice is "Practical Forestry," by Prof. John C. Gifford, of the New York State College tion. The honey producers, little and of Forestry, Cornell University, and published by D. Appleton & Co., New such union more firmly than mutual York. It contains nearly 300 pages and benefits derived from such union. Cast is beautifully illustrated. The price is

#### Our Climate.

Mr. Getaz in a recent article on the value of double walled hives, says: The Bee-Keeper know the value of 'locality' should be made here. With ter and especially of the great value you Northern people the spring does both for wintering and for the productnot come until the snow is all melted— ion of next season's harvest gatherers, may come as late as the 20th of May. Under such circumstances the necessity of ample protection is seen at once.

Even during the summer nights are often quite cool-in fact, cold enough to compel the bees to abandon the su-close down the hive to its winter size pers during at least the latter part of and do not open it again until next seathe night."

will hit the "Northern locality," to a dot.

There is not so much difference between the climate of the Northern and Southern states as some people think. A little longer cold spell and a little shorter hot term. Florida has its freezes, Michigan its torrid wave, the Gulf states shiver in a cold fog, and New England wilts with a tropical humidity. We all take a sample. Only the arid regions have a climate peculiarly their own.

From thirty colonies only four swarms have issued this season and yet at times many of the hives have been so packed with honey that the bees ceased work for want of a place to put their loads. Why the absence of swarming? years, one dollar.

#### Prepare Now for Winter.

We believe that the older readers of "Perhaps some explanation on the early preparation of their bees for winthat is, quite late in the season. At of full stores in the brood nest ere cold that time the days are long, the sun weather sets in. For the benefit of the quite high, and the weather gets good large number of our new readers we and warm at once, and stays warm, wish to repeat and urge that they see In this latitude the case is different, to it at once that their colonies have The spring begins early, but drags vigorous queens, that all weak colonies along through a succession of warm or nuclei are combined into strong ones, and comparatively cold spells of weath- and that any colonies short of stores be er. The maples begin to blossom ir- fed until their combs are well filled. regularly in March, and sometimes as Localities where a fall honey flow does early as the middle of February, and not occur are rare and generally by the apple-trees about the 1st of April; Sept. 15 most colonies will have a full but quite cold spells and frosts, and larder but where any are found short, occasionally a regular freezing day, feed them as quickly as possible and if the weather is cool, aid the bees in ripening and storing their food by wrapping the hive in black buildingpaper.

As soon as the feeding is finished. The bees will thus have a chance son. If he will start his spring with late to place the stores just where their in-March or early April, the rest of it stincts dictate as best and will effectively seal up all cracks. Give the bees a fair chance and they will do more for their own good than man possibly can by any amount of late and unseasonable tinkering.

Let preparedness be the watchword.

If you have supply men or editors of our trade papers among the members of your bee-keepers' society, so amend your by-laws that such members shall have no voice in the management of the society's affairs. If they do not like the restriction, return their entrance fee to them and let them go their way. A man cannot serve two masters.

The AMERICAN BEE-KEEPER, four

#### Sugar Feeding Must Stop.

Recently an article appeared in a contemporary explaining the condition of sugar syrup after it had been treated and stored by the bees, the claim being made that such can always be detected. Presumably the effort was inspired by a desire to defend the practice of sugar feeding as advocated by the paper publishing the article. Unfortunately for the point attempted, no consideration was taken of stored syrups that contain a per centage of nectar from the flowers.

Bee-keepers have got to stop feeding sugar syrup to their bees—except to prevent starvation—unless they are to see their business ruined.

"Most men would feel insulted if it were proposed to employ them throwing stones over a wall and them throwing them back again, merely that they might earn their wages. But many are no more worthily employed." Thus wrote Thoreau. And today not a little of apicultural advice is of the stoneshifting order.

#### HONEY AND BEESWAX MARKET.

Cincinnati, Aug. 4.—We are releiving numerons shipments of comb honey at the present time, and find ready sale here for fancy and No. 1 at 14c to 15c per pound in a jobbing way. This is a poor market for grades lower than No. 1. The receipts of extracted honey are normal, although the demand is not so good as it was sixty days ago. nevertheless, there is no material change in prices. Are selling amber in barrels and cans at 5c to 6½c. Fancy white at 6½c to 8½c. For choice beeswax, free from dirt, we are paying 30c per pound delivered here.

The Fred W. Muth Co.

Chicago, Ill., Aug. 6.—There is now offered some good lots of comb honey and while the trade in it is not active it is taken at 15c and 16c for fancy. 14c and 15c for No. 1, 12c and 13c for fancy amber, at d 8c and 10c for fancy dark. Extracted is slow of sale with prices according to quantity and quality. White extracted  $6\frac{1}{2}$ c and  $7\frac{1}{2}$ c, amber  $5\frac{1}{2}$ c and  $6\frac{1}{2}$ c, dark 5c and  $5\frac{1}{2}$ c. Beeswax wanted at 30c per pound.

51 Walnut St.

R. A. Burnett & Co.

Boston and Worcester, July 18.—Our market is entirely cleaned up on honey. We sold last lot at 15 c. Prices through season for good stock have been from 14 to 17c. There has not been any over-supply on the market, therefore conditions have been favorable for good prices. We under-

stand there is to be quite a good, fair market, although possibly not quite a high as this season.

W. H. Blodget & Co.

Kansas City, Mo., July 17.—The supply of honey is somewhat limited with demand fair and increasing. We quote our market today as follows: Fancy white per case [24 sections] \$3.00. Extracted 5½c. Beeswax none. No new extracted honey as yet C. C. Clemons & Co.

Buffalo, July 16—The supply of honey is coming slowly, while demand is increasing. We quote our market to day: Fancy comb, 14 to 15 c. Extracted, 5 to 8 c. Beesway, 28 to 30c. Strickly fancy is wanted but Nos. 2 and 3 sell slowly at 10-12c. Old unsaleable stock slow at 3 to 5 c. Batterson & Co.

New York, May 12—The supply of honey is sufficient to meet demand. The demand is fair for extracted. We quote our market today as follows: Comb, 9 to 15c; as to quality, Extracted, 4½ to 6½. Beeswax 30 to 31c, Hildreth & Segelken.

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American Bee-Keeper, Falconer, N. Y.

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Aug 8

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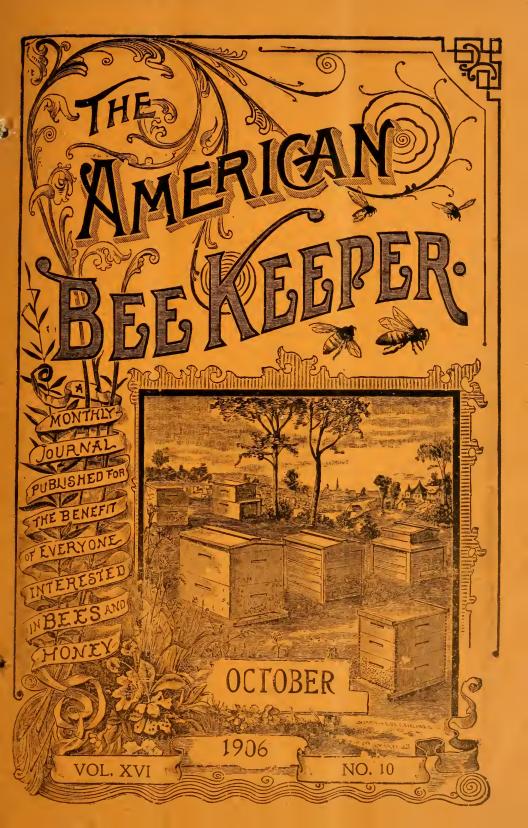
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#### Gold Fountain Pen. **\$**2.00 "Diamond Point."

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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

OCTOBER, 1906.

No. 10

## A Unique System.

How an Ingenious School Teacher Harvests Crops of Honey from a Desert.

A. C. MILLER.

would appear to be the worst. A strip seemed to offer a chance for forage. of shifting sand with twenty miles of Like many other apicultural enthusstrong impression, Mr. Latham's home piazza roof. is right on the shore of Cape Cod bay

F ALL UNPROMISING places for aquatic bee and trained it to dive for profitable apiculture Cape Cod the seaweed bloom, for naught else

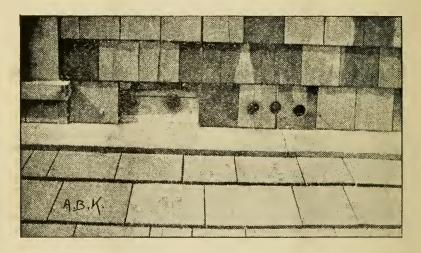
bay on one side and three thousand iasts he found it impossible to be withmiles of ocean on the other describes out his bees, so when early established the most apparent conditions, and yet, in his summer home, some years ago, Allen Latham finds bee-keeping there he bought a small colony and put it in to yield satisfactory returns. It was a hive built into one corner of an upper the writer's good fortune to be able to room. Much to his surprise they did accept an invitation to visit Mr. Lath- well; despite the unchecked sweep of am at his summer home, and the unique- winds the colony waxed strong. He ness of the locality as a bee pasture now has three colonies in his house, and his methods of apiculture made a the entrances being just above the

At various parts of the cape he has and at high tide the water is within a other colonies. At Provincetown, on few feet of the door. North and south the very end of the cape, he has eight stretch the upper beach covered with colonies, several of which this year coarse salt grass, while to the east is gave him over 150 pounds each. When the highway bordered by a fresh water he told me the yield I could scarce lake edged with rushes, and beyond believe my ears, but when he opened this are the shifting sand dunes and some of the hives and showed me great the broad Atlantic. My first statement slabs of new comb packed with luswas that he must have developed an cious golden honey I could but stand

yields bountifully.

from July 10th, to September 1st, of broad frames are filled with foundation each year he had to devise a "let alone" and the honey frames have one-inch plan of culture, and he has developed starters. Thereafter the brood nest is his system particularly to meet seldom disturbed, the only frames re-

and wonder. The Provincetown yard tion is as follows: A hive holding is his largest on the cape, the others twenty frames 16 inches long by 11 ranging from one to four hives each. inches deep, inside measure. They are The sources of honey are beach plum, arranged on the "long idea" plan. huckleberry, sundry small summer The "brood nest" consists of eight flowers, in some places some white frames and is located next the entrance clover, and golden-rod without limit. the combs running parallel to the front The coarse marsh grass is literally full wall. Back of these eight frames is a of a dwarf variety of golden-rod which sheet of queen-excluding zinc, behind which are the twelve frames for honey. As Mr. Latham is with his bees only When first put into commission the



ENTRANCE TO HIVE IN MR. LATHAM'S HOUSE AT PROVINCETOWN, TWO MILES FROM VILLAGE.

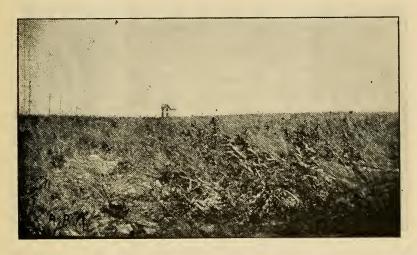
have room enough for winter. would stagger some of the shallow hundred pounds of honey. eight-frame hive advocates, His solu- The hives are made from boxes

the peculiarities of the location. A moved being the store frames when hive to withstand the bleak winter filled. The full combs are cut out, a gales and the blistering summer sun half-inch of comb being left along the was his first problem, and was met by top bar, and the frame at once rean adaptation of the air-spaced hive used turned. These combs seldom contain in Norwich, Ct. The next considera-pollen and are crushed and the honey tion was its size and shape, for it must strained out. This method saves the for the fall and trouble of carting combs to extractor, spring flow and with a brood nest large or extractor to apiaries, and incidentenough for summer and small enough ally yields a fine crop of superior wax. How such a problem The twelve frames will hold about one

bought at the grocery. The entrance To hold the covers on, small holes are hang on the top edge of this wall. The afforded is slight indeed. wire tops and ends so that when in it will be hard to find in all this broad

extends across one end, is an inch high bored and long wire nails are pushed and is guarded by a grating of wire firmly in. Bees thus housed and shelnails driven up through the bottom; tered care for themselves, make rousthis is to keep out the mice. Inside ing colonies, do grand work, rarely the box is put a layer of several thick- swarm, and stand all the extremes of nesses of newspaper against which at one of the bleakest and most exposed the bottom and near the top are nailed spots in New England. Where possistrips of wood about three quarters of ble Mr. Latham locates his hives in an inch thick. To these is tacked an- clumps of the scrub oak or other trees other layer of newspapers, over which scattered here and there in hollows of is placed a wall of wood. The frames the land, but the protection thus

floor is also double. The frames have A more successful "let alone" plan



BEACH GRASS AND GOLDENROD AS SEEN FROM MR. LATHAM'S PIAZZA, LOOKING SOUTH ALONG SHORE OF CAPE COD BAY.

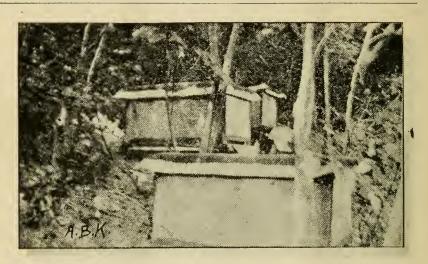
place they form an inner wall. They land. do not fill the hive from front to rear is closed by a long wedge of wood, and Latham: when thus fixed the frame tops and "I captured my first swarm from the

Since the foregoing was written the by half an inch and the space thus left following notes were received from Mr.

wedge make a complete top to the hive branch of an elm tree in 1884, June. and holds all bees below. Over these The next summer I bought and otherare laid a pad of newspapers and above wise increased my colonies to five. In by half an inch an inside cover of 1886 I had nine, the next year 16, and half inch boards. The outside of the from then on till 1894 I kept about 30 hive and the outer cover is covered colonies in Lancaster, Mass. I diswith a heavy black building paper, posed of my honey to the neighbors, Paroid Roofing I believe it is called. and in the New England fair, held at Worcester, Mass. When I left college, honey. Those elsewhere are run for 1892, I began teaching, but continued chunk honey, and strained honey. to go home to care for my bees, when- "It is some five years ago that I first all but five colonies. These I joined ing only a minimum of attention. with two other colonies which I had "My largest yield from any colony carried with me on my teaching pil- was 146 salable sections in 1893. These grimages, and from 1895 I kept from sections were 4 1-4 by 4 1-4 by 1 7-8,

ever occasion demanded, and I could thought it would pay to set large hives get away from my school duties. Two out on farms in different localities, or three visits from April till the sum- from which to cut honey in the fall of mer vacation in late June usually suf- the year. I now have sixty or more ficed. In 1894 pickled brood (?) made such hives, and I find that the income such ravages in my apiary at the old from honey and wax is very good, the home that I broke it up and gave way work being rather light, the bees need-

four to 15 colonies in Walpole, Mass. two bee-way, no separators. Would



THREE HIVES IN A LITTLE HOLLOW IN THE SAND HILLS AMID BUSHES AND SCRUB OAK.

I kept from two to five colonies while average more than a pound each. teaching in the towns of Deerfield and "I have always made my own hives. wich, Conn., in 1902.

to Provincetown, Mass. I now have 10 and still have eight of those hives. colonies in Provincetown, 13 in Truro, Loose-hanging, made from pine strips Mass., 14 in Lancaster, Mass., 26 on 7-8 wide or a full inch sometimes. I the hills about Norwich, Conn., and 60 now use a cross-wise frame, closed-end, colonies in my home yard, besides a 10 deep by 12 long, 11 to the hive. dozen or more nuclei. The colonies in "My hives are with few exceptions the home yard are run for section made from grocery boxes, and covered

Andover previous to this. I kept the I first used a frame about 13 deep by 11 bees in Walpole till I moved to Nor- long, nine to the hive. Then I shifted the frame so that it was 11 deep by 13 "It was in 1901 that I first took bees long. That frame I used for 15 years,

with Paroid Roofing paper."

with a little ingenuity and but a small amount of leisure may accomplish much even under adverse conditions.

and manipulating is not at all essential to profitable bee culture.

Providence, R. I., Sept. 11, 1906.

#### BEE DISEASE FIGHTERS TO MEET.

The following circular was sent to apairy inspectors and bee disease ex- suggestions for improvement. perts throughout the country, last sum-

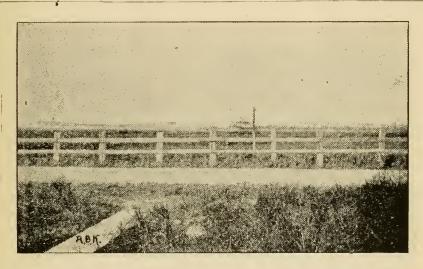
tors for the purpose of remedying this Thus it will be seen that a person condition of affairs in so far as is possible, by consultation and co-operation of persons familiar with this work.

If the Inspectors now at work on Also it is apparent that much fussing these problems can meet together, there are several subjects which could be discussed to advantage. Among these might be mentioned:

Comparisons of methods of treatment. Locality differences in disease and treatment.

Foul Brood Laws now in force, with

As a time and place of meeting San



ROAD IN FRONT OF MR. LATHAM'S HOUSE, SAND DUNES IN BACKGROUND, BEYOND WHICH LIES THE OCEAN.

mer:

To the Bee Disease Inspectors:

advisable to call a meeting of Inspec- plained and demonstrated. No decision

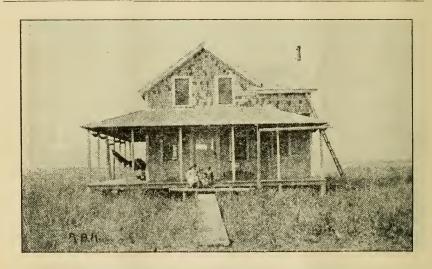
Antonio, Texas, November 7th, 1906, Milwaukee, Wis., August 3, 1906. has been suggested, since the National Bee-Keepers' Association meets there As you are well aware, the brood the day after, and the Inspectors would diseases of bees are serious things to thereby get to attend both meetings. American bee-keepers. While the In- At the same time it would also add to spectors are fighting the progress of the interest in the N. B. K. A. convendisease to the best of their ability, yet tion. The low railroad rates would lack of laws, inadequate laws, and an make the expense less heavy. Another absence of uniformity of method and of suggestion is Washington, D. C., where cc-peration make the work difficult. it would be possible to have the bacteri-For these reasons, it has appeared ological side of bee disease work exof time and place will be made except easily be made for the publication of who agree to come.

One of the important results of such a meeting would be that persons inter- meeting by the Inspector would be of ested in the passage of new Foul Brood sufficient value to the community that Laws would have an opportunity to the state or county employing him consult with those already familiar should be willing to pay the necessary with the fighting of bee disease, and expenses of such a trip. get suggestions as to the best form of The hearty co-operation of every perlaw. If such a meeting is held, it will son interested in this work is earnestly be open to all persons interested, but requested. Such a meeting will be for it is understood that it is to be strictly the purpose of furthering work in fightan Inspectors' meeting, and other ing bee disease and not to advance the

by choice of the majority of Inspectors the proceedings of the meeting without cost to the Inspectors.

We feel that attendance at such a

persons will not be allowed to take up interests of any person except the bee-



MR. LATHAM'S SUMMER HOME, EAST FRONT. AT BACK IS CAPE COD BAY AND BUT A MILE AWAY IN FRONT THUNDERS THE ATLANTIC.

valuable time of the meeting in discus- keepers of America. sions.

- (1) Are you in favor of such a meeting?
  - (2) Will you come?
- (3) Will your state or county pay your expenses?
- (4) What is your choice of time and place?

successful meeting, arrangements can has been decided that this meeting will

Kindly write at an early date and let The questions which we wish to have us know what sou think of such a moveanswered by the various Inspectors are: ment. A candid, full reply is solicited.

Truly yours, W. Z. Hutchinson.

Inspector of Apiaries for Michigan. N. E. FRANCE,

Inspector of Apiaries for Wisconsin. E. F. PHILLIPS,

U. S. Department of Agriculture. After hearing from a number of In-

In case of a good attendance and a spectors who agree to be present, it

be held in San Antonio, Texas, on November 7, 1906, the day preceeding the first session of the National Bee-Keepers' Association meeting. A number of persons prominent in bee disease Editor Bee-Keeper: work will be present, and a good meeting will result.

ing bee disease laws passed is particof course, to be understood that dis- at a time while superseding.

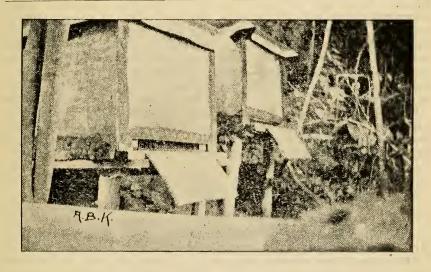
#### MR. DEWEY'S "PECULIAR CASE."

SOLUTION BY ALLEN LATHAM

Norwich, Conn., Sept. 8, 1906.

On page 195 of the AMERICAN BEE-KEEPER you invite suggestions from To this meeting all persons interested your readers, and having had two cases in work on bee disease are invited. The somewhat similar to what Mr Dewey attention of persons interested in hav- describes I will venture an explanation.

I feel sure that it was not a case of ularly called to this gathering, and supersedure. In the first place bees such persons are urged to attend. It is rarely develop more than one queen cussion of subjects foreign to bee may have two or three cells going, but



FRONT VIEW OF TWO OF MR. LATHAM'S GIANT HIVES, LOCATED ON STEEP SIDE OF LITTLE HOLLOW IN THE SAND HILLS. HIVES ARE PAINTED BLACK BUT APPEAR WHITE ON ACCOUNT OF REFLECTED LIGHT. MOUSE-GUARD SHOWN AT ENTRANCE.

disease will not be allowed, nor will any one is usually far in advance of the one be permitted to occupy the time of others. the meeting in riding a hobby. This meeting is not part of the National Bee-Keepers' Association meeting, nor is it in any way connected with it. The proceedings will probably be published, so that the discussions will be available for those not present.

AMERICAN BEE-KEEPER 3 years \$1.00

The queen was clipped. A week or so earlier, say about July 28th, a prime swarm issued from that hive unobserved by Mr. Dewey or his folks. The clipped queen was lost in some way, and the bees returned to the hive. On August 5th the colony swarmed again, as was observed, but did not stay swarmed.

Why did no virgins go with swarm?

Largely because each virgin was too ured by the service she had done rather intent upon the business of hunting up than by the number of months she has reason the prime swarm loses its queen early this spring." That means she and returns to the hive, the swarm then did about a full years work last year. becomes no longer normal, and the This year she worked up to the last of the while. The governmental condinute far from two years. She had 20 forces.

is thus lost each cell becomes the cen- should be expected from an average company of supporters. ceases to have a central government, years work. and becomes rather a loose aggregation superseded? of principalities.

were a few cells with larva about ready one of the hottest nights of the season. to seal, he tells us that the old queen was present about July 27th at greatest. Is not the case plain?

> Yours very truly, ALLEN LATHAM.

DR. MILLER'S EXPLANATION.

Marengo, Ill., Sept. 8, 1906.

Mr. Editor:

Referring to that "Peculiar Case"

as to why such a queen should be super- usually their custom. seded." Are not queens generally Their young queen may have been

her challenging sisters. When for any lived? "The queen was one year old virgin queens will not act in the July, and that means nearly another usual (?) way. I have waited four year's work, for queens don't lay such days for a swarm thus conditioned to a very large amount after the first of issue, the virgins piping vigorously all August. So her term of service was tion of the colony is very chaotic, and frames of brood this season, and last requires a long time to adjust itself. year she "kept 20 frames filled with Ultimately the colony will either swarm brood most of the season." When or all virgins will yield to one which is size of frames is not mentioned it is to carry on the old colony with all its fair to assume that they were Langstroth frames, and keeping 20 frames Remember that when the old queen filled was more than twice as much as tre of interest of a rather numerous queen; so no matter how long she had The hive lived she had done something like four Why shouldn't she be

Hope you're having comfortable When Mr. Dewey states that there weather in Florida. Last night was

Best wishes, C. C. MILLER.

JOHN M. DAVIS TELLS HOW IT HAPPENED Editor Bee-Keeper:

I just noticed your diagnosis of Mr. Dewey's peculiar case, page 195. Off the track, Harry. This is evidently a case of natural swarming, and the old clipped queen being lost in the grass page 195, your guess seems to be or- about a week before the swarm menthodox, but as you ask for suggestions tioned by Mr. Dewey. Bees do not I venture the additional guess that build so many cells when superseding about eight days prior to the time the a queen, and they never wait until the swarm issued a prime swarm, unnoticed queen is so nearly exhausted before may have issued, the clipped queen be- they prepare cells. In this case owing ing lost. The effect would be practi- to the excessive number of bees I think cally the same as your hypothesis that the old queen led the first swarm out bad weather had delayed matters. rather soon; or at least before the You say "it is difficult to conjecture queen cells were as far advanced as is

superseded on account of old age, and lost as you suggest, but I am of the was she not practically a pretty old opinion that the bees being so anxious queen? For is not her age to be meas- to swarm, did so a little too quick and

I have frequently had this experience. In cases of ordinary after-swarms the young queens are often held in the cells until they are old enough to fly direct from the cells; but in the case mentioned the first queen came out as soon as she could cut out, and possibly was helped out, as the bees were anxious for her advent.

All queen breeders know that queens just emerged from a cell in a nucleus cannot fly. These are allowed to come out just as in a case where an old queen has been lost. Yours truly,

JOHN M. DAVIS.

#### HANDLING CROSSWISE FRAMES.

#### Allen Latham

wise, and is a sufficient reason, then the more numerous frames. bee-keepers in general may be put down this article to give some of these.

frames a vear or two.

With the frames crosswise work can this instinct. be carried on from the back of the hive.

the young queen could not take wing. for purposes of manipulation. If one This was owing to their crowded con- has plenty of space the second gain does not count for much, but every one will find the first gain worth while. It is remarkable how little smoke is required while working from the back with crosswise frames. Later I shall have more to say concerning this, and will dismiss the matter at present with the simple hint that working thus one can keep out of sight and disturbance of the entrance guards.

Speed is gained by the crosswise arrangement. With this arrangement a bee-keeper can find out the condition of half as many again colonies in a given time as with the lengthwise frames. You will scarcely believe this statement, and so I must offer reasons for making so bold a statement. I have often seen it stated that the crosswise frames meant more work and time, OT LONG AGO an editor of a bee- since there would have to be more paper said that frames should frames. Allowing that there would hang lengthwise of the hive so that the have to be more frames, and 'I am hive could be tilted that the water blessed if I know why I should allow might run out. If that is the only rea- such a questionable inference, I still son for having the frames hang length-think that time would be saved with

If I read the signs aright, apiarists as dolts. There are of course, other are coming more and more to follow reasons, some not possibly so imbecile the instincts of the bees instead of their as the one above. On the other hand own whims. It is safe to say that all there are reasons why the frames should really successful bee-keepers are those hang crosswise; and it is my purpose in who are ever ready to yield to the instinct of their pets, knowing full well Most apiarists are in accord in saying that by so doing they will gain more in that the crosswise arrangement is the the end. One of the powerful instincts warmer, but prefer to sacrifice this ad- of the bee is to give its brood nest a vantage for reasons of their own. That station near to the entrance, and to this advantage alone is sufficient reason store its honey up and back. That this for hanging the frames crosswise is one instinct is invariably followed, I do not of my beliefs. There are, however, assert. I have seen many exceptions. numerous other advantages which are Like all bee-instincts, however, it not recognized till one has handled such generally holds true. With the crosswise frames one can make good use of

Who has not observed that in the There is double gain here, -first, the lengthwise frame there is almost always bees are less easily stirred up, second, more honey in the upper back corner the hives do not require side-spacing than in the upper front corner. Somethe front of the hive. But does it tend number of frames of brood. bee-keepers will note by the bees about character. the entrance whether the nest centres to the right or to the left, and will dition of colonies with crosswise frames thereby gain a minute in their exami- in the springtime. In summer we are nation of the colony. With the cross- equally well off, for we have merely to wise frame one neither has to guess take the rearmost frame out in order nor to observe the entrance.

of a colony. We note that the brood- most frame contains brood then all is nest is to the left. We remove frame well. If it is solid with honey, we must brood. We note character of brood and till we find what we are after. eggs. We count remaining frames, and frame. Far easier with the cross-wise handled crosswise frames for frame.

frames.

Well, the brood-nest nine times out of hiding. ten is begun near the front and is car-

times, indeed the entire back end is make sure we have merely to roll the solid honey, while the front end is cloth back from the front. If the bees seldom thus. The brood-nest tends to are clustered there, then we know the to the right or the left? A guess is have just seen the last laying of the the best you can say. Some observing queen we can judge very well of her

It is mere play to find out the conto know what the brood-nest is. For Suppose we wish to note the condition we can rest assured that if that rearafter frame from the right till we find of course, proceed towards the front

I handled lengthwise frames for 18 to make sure remove the left-most years, and still have a few. I have years, and I have hundreds. I shall All the time that we are taking out never return to the use of lengthwise frames thus we are disturbing the en- frames. In none of the operations about trance guards, irritating them and en- the hive is time lost by the use of crossticing them away from their post of wise frames, while with many of them duty. If no honey is coming in there time is actually saved. After one has is great danger of starting some rob- become familiar with the handling of bing. Please note that with the length- these frames he can even find the queen wise frame we break the cluster length- more easily. Why? Because the frames wise cutting it from the quiet back are frequently individual brood periods: portion to the lively front portion. We this frame is all sealed; that all young thereby upset the whole tenor of the brood; that all eggs. Do not understand colony. Not thus with the crosswise me to say that this is always so. Crosswise combs like lengthwise combs lose Now suppose we have crosswise that character as summer progresses. frames, and we wish to know the con- But with the crosswise frame one can dition of a colony in early spring or be surer of getting the queen for the summer. We will not smoke the en- simple reason that he is disturbing the trance at all. We simple remove the cluster parallel with the entrance and cover, fold back the cloth frame by not perpendicular to it. He is disturbframe till we see the clustered bees, ing bees of like ages and instincts at We then remove a frame. Its condition one time, and not disturbing bees of will tell us nine times out of ten what various ages and instincts. There is less the condition of the colony is. Why? likelihood of frightening the queen into

With the crosswise frames many ried back frame by frame. We are manipulations can be carried on without reasonably sure therefore that all the causing the bees to stop work. Many remaining frames except possibly the a time I have seen the bees continuing frontmost one have brood in them. To their work, (field work) as though

working with the rear frames. Thus that one should in early spring remove this frame is a gainer for the bees as the unoccupied combs from one side of well as for the apiarist.

I have before hinted of robbing being started with lengthwise frames. With the crosswise the entrance guards are seldom enticed away from their duty, and even though robbers may be hovering about the rear of the hive while one is manipulating the frames, he can close up the hive and rest assured that any robbers will meet with a hot reception if they carry their thieving to the entrance.

I have already made this article rather lengthy, and must close, though I could easily offer other valuable advantages which the crosswise frames afford. The one which I have dwelt upon most is a weighty one and should

nothing was happening, though I was carry conviction. Dr. Miller teaches the brood-cluster and shove the combs containing brood to the hive wall farthest from the manipulator. Thereby one will thereafter know where the broodnest is and can save much time in manipulation. Well, Doctor, with the crosswise frames that mighty valuable thing is already done for you. Norwich, Conn.

> Make notes of the condition of each colony that you put into winter quarters considering its stores, its bees, whether they are normally proportioned or mostly old or mostly young, the queen's age and quality and then consider the results next spring. Those factors have quite as much importance as the kind of hive and protection given.

## Honey Vinegar.

Timely Hints for Farmers. Issued by the University of Arizona Agricultural Experiment Station.

A. E. VINSON.

THE DESIRABILITY of utilizing hoops rust off his casts, and they bethe home market, and are supplied by of his product. eastern makers. The vinegar usually retailed is made by diluting "Triple extract" with two or three volumes of the length of time required to put "the treated differently. valuable capital. In the meantime the collected within the Territory.

honey washings and waste for gin to leak. Moreover, the intense vinegar making has been pointed out in heat of summer, where proper protec-Timely Hints 48 on Bee Products in tion is not given, occasions the evap-Arizona. Hitherto only a small amount oration of alcohol and acetic acid. It of honey vinegar has been produced retards the activity of the ferments locally, although cider and distilled vine- and finally degenerative fermentations gar demand an unusually high price in take place, which decrease the strength

#### ARIZONA CIDER VINEGAR

The method of making honey vinegar water. It retails at 15 cents per quart, now in use among farmers, often reincluding the bottle, and varies greatly sults in the loss of enormous quantities in strength. On the other hand, the of saccharine material, which would local producer is usually discouraged by have been fermented, had they been This sparks" into his product. This delay brought out most strikingly by the requires the long investment of his analysis of a small number of samples

#### COMPOSITION OF ARIZONA HONEY VINEGAR.

1	Acetic Acid	Unfermented Matter	Ash	
(1) Fort Lowell	2.11	0.87	0.29	
(2) Phoenix	4.24	22.81	0.39	
(3) Buckeye	3.81	6.58	0.44	

mented to alcohol, but is still under- and a suitable temperature. going acetic fermentation.

No. 2 is a very striking example of saccharine matter. Alcoholic fermentation is very seriously retarded by even small percentages of free acid and in this case it is doubtful if any of the remaining sugar ever becomes vinegar. Furthermore, the unfermented honey sweetens the sourness to such an extent that it tastes but slightly more acid than a vinegar of half its actual strength.

No. 3 also shows considerable material which escaped fermentation. This is often due to adding fresh washings to partially made vinegar. The alcoholic fermentation must, in all cases, pre ceed the acetic, for even small amounts of acetic acid greatly retard or entirely prevent the activities of the yeast cells. In other words, acetic acid is a direct poison to yeast, and no further addition of washings or honey should be made-

#### THE ALCOHOLIC FERMENTATION.

must, therefore, provide those condi- 1 and 2 received no further fertilizer. their development in the order named. (0.25) of ammonium chloride The most essential conditions for the Flasks 5 and 6 received the

No. 1 is a vinegar, six months old, rapid development of any micro-organin which the honey is nearly all fer- ism are a complete nutrient medium

> Honey diluted with ordinary well water falls short of meeting the first requirement, i.e. providing sufficient and proper food for the yeast. From the honey analysis given in "Timely Hint" No. 48, we at once notice the very small amount of mineral matter, ranging from 0.06 to 0.46 percent and of nitrogenous matter, which was about 0.25 percent (0.04 percent nitrogen.) For their best development, yeast cells make the same demand for potash, phosphoric acid and nitrogen on the medium in which they grow as the field crops do. The time in which yeast will convert a given amount of sugar into alcohol, depends not only on the temperature, but upon the quantity of each of these fertilizing substances present.

These facts were put to test by means of a series of cultures similar to those often made with grain in pot experiments. Six flasks of about 400 C. C. As already indicated, we notice that capacity were fitted with sulphuric acid the process of changing sugar to acetic valves, by which the free escape of acid, or vinegar, takes place in two carbonic acid gas was provided for, but principal stages. First, sugar to alco- the evaporation of moisture prevented. hol; second, alcohol to acid. The first Exactly 250 C. C. of dilute honey, constage is the work of yeast cells; the taining 400 grams of honey in 2000 C.C. second, that of the acetic acid forming of well water, were placed in each bacteria. In attempting to shorten the flask. The well water used supplied time required for these changes, we sufficient lime and magnesia. Flasks tions which are most favorable for Flasks 3 and 4 received 1 part per 1000

amount of ammonium chloride and, in mercial yeast. This may have been addition, 1 part per 1000 of potassium due to a mixed fermentation. phosphate. Each flask was then in- well known, different species of yeast oculated with 10 C. C. of yeast culture produce different fermentations, some made from a boiled potato with a little yielding more alcohol from sugar than sugar and commercial hard yeast, others. The cultures, with flask and sulphuric purely alcoholic, for some glycerine and acid valve, were weighed at the start succinic acid are always formed, and and once a week afterwards. The loss sometimes lactic fermentation takes in weight, due to the evolution of car- place. A commercial yeast has probbonic acid gas, is a measure of the ac- ably been grown from a species which tivity of the yeast cells. The following has proved to give a pure alcoholic ferabridged table shows these losses:

The fermentation is never mentation. The brewer and distiller

TOTAL LOSS IN GRAMS, AT THE END OF EACH PERIOD, DUE TO EVOLUTION OF CARBONIC ACID GAS.

No.	Nutrient	1st week	2nd week	3rd week	4th week	5th week	6th week	10th week	13th week	Percent alcohol by wt. in wine produced
1	None	4.36	7.40	9.87	11.55	12.52	13.52	16.31	17.18	7.04
2	None	4.74	7.79	10.47	11.37	13.53	14.71	17.76	18.28	7.42
Ave.		4.55	7.65	10.7	11.95	13.03	14.12	17.04	17.73	7.23
3	Am. chlor.	7.99	11.96	13.81				17.13	17.43	6.69
4	Am, chlor.	7.96	11.65	13.34	14.53	15.26	16.24	17.61	17.89	7.09
Ave.		7.98	11.8	13.58	14.73	15.27	16.01	17.37	17.66	6.89
5	Am. chlor. and Pot.	10.39	16.79	17.62	17.94	18.03				7.12
6	Am. chlor. and Pot.	11.27	17.08	18.01	18,26	18,36	18,40			6.98
Ave.		10.83	16 94	17.82	18.10	18.20	18,26			7.05

was secured very little sooner than little pure yeast as a starter. end of the third week.

A number of small casks of dilute honey, containing about 10 percent of honey makes a very palatable beverage sugar, were then prepared and one part especially if used at just the right time. each of ammonium chloride and potas- This cider, though of lighter color, resium phosphate per 1000 were added. sembles apple cider very much. The One of the casks was left to catch wild wine obtained by adding a small amount yeast from the air, and the others in- of vinegar to the completely fermented

This experiment shows that the addi- are very careful about the yeast they tion of ammonium chloride alone ac- use, because the quality of their prodcelerated the fermentation in the early uct depends so greatly upon it. Thus stages, but that complete fermentation it would always be advisable to add a with unfertilized, diluted honey. When added expense is insignificant. Some both ammonium chloride and potassium of the experiment stations, moreover, phosphate were added, the fermenta- have found such a practice to shorten tion was practically complete at the appreciably the time required to make cider vinegar.

The cider produced from fermented oculated with good cake yeast. The honey, after it has cleared up can fermentation was a day slower in start- scarcely be distinguished from a grape ing from the wild yeast, but after two wine, and has a clean, pleasing flavor. weeks, was as nearly complete as those In all cases the cask must be perfectly that had been inoculated. The per-clean. It should be steamed, or, at centage of alcohol produced, however, least, thoroughly scalded, before the was somewhat lower than with com- diluted honey is put in. One of the casks used in these experiments was is provided with a perforated false obliterated.

the activity of these organisms, and Barker's mill. we will know the way in which to proing depend upon it.

optimum conditions.

give the total about one percent of to that industry. acetic acid. This mixture is allowed oculated with vinegar bacterla. The vat teria from a film on the surface of the

slightly tainted, and, although thor- bottom, between which and the real oughly soaked and cleaned with cold bottom rows of holes, slanting downwater, the fermented honey took on a ward, as bored through the sides of the most disgusting flavor. Ordinarily, if vat. When the generator is working the honey undergoes a rapid fermenta- properly, a match flame will be drawn tion, the honey flavor is practically into these holes. The rapid oxidation of the alcohol generates much heat, Having once obtained good wines and which if not controlled, will result in the insured practically the complete fer-volatilization of alcohol, aldehyde and mentation of the sugar, we are ready acid. When there is danger of loss by to arrange the best conditions for the heating, some of the holes are plugged. rapid exidation of the alcohol to acetic No metal can be used in such a factory acid. This is accomplished by the vine- as the acid vapors corrode it very gar bacteria known to science as rapidly. The piping is all glass with Mycoderma aceti or more accurately rubber connections, and the necessary as Bacterium aceti, and other allied pumps are of hard rubber. The dilute species. There remains then only to alcohol is distributed evenly over the know the conditions most favorable to surface of the shavings with a glass

A very good vinegar was produced in duce honey vinegar in a minimum this laboratory with a simple apparatus amount of time. This way, fortunately, consisting of a keg filled with beechhas been clearly marked out for us, wood shavings over which dilute alcosince the success of the carefully hol was allowed to trickle from a vessel worked rapid processes of vinegar mak- arranged above. Due to the small size of the apparatus, the dilute alcohol has The vinegar bacteria require, above to be passed through it several times, all else, abundant supplies of oxygen, to accomplish complete oxidation. The best furnished as fresh air. They tol- temperature frequently reaches 95 deerate rather strong alcohol, but do not grees Fahrenheit and there was, conseflourish in solutions of over 10 per cent. quently, considerable loss. A small They develop only slowly in very weak rapid process apparatus, while quite acid solutions, but increase in activity, effective, would hardly prove satisfacas the acid becomes stronger. At tory in the hands of a farmer, as it reabout 2 percent acid, and 75 degrees to quires too much supervision. A large 85 degrees Fahrenheit they find their plant, however, located in a good bee district, should prove remunerative, as Rapid progress. By the rapid pro- the washings and low grade honeys for cess, these conditions are so well ful- that region could then be worked at a filled that complete acetification takes central factory. This should prove place in a very few days, or even hours. especially successful if worked in con-One part by volume of ordinary nection with a local pickling works, alcohol is diluted with 10 parts of water since an adequate supply of good vineand sufficient strong vinegar added to gar, at a reasonable cost, is essential

Cask process. On the farm, howto percolate slowly through deep vats, ever, the most practical method is the filled with beech-wood shavings, which open cask. In this case the formation have been boiled and afterwards in- of vinegar is most rapid when the bacliquid. writer has observed the formation vinegar. When once started, no new of acetic acid at the rate of one-tenth vinegar need be added. percent a day. The film, however, rapidly becomes heavy, and is sub-vinegar has become strong enough for merged, after which the acetification ordinary use, about 4 percent, it should takes place much more slowly. The be poured off from the mother, filled film therefore, should be preserved. into casks, and tightly bunged. Just to destroy this film if present and for hol into acetic acid, so other organisms, full.

A moderation of a French generator, devised at this Station, will prove especially serviceable where only made into vinegar from time to time. A good wine or alcohol barrel is carefully painted on the outside to prevent corrosion of the hoops. A hole is now chime on the side next the bung and covered with a fine screen to keep out insects. At the bottom of one end, a wine, which must first be fully ferfilm will not be disturbed by drawing requisite amount of water. native cane, the joints of which have obtained at small cost. is started with a mixture of about This will give a sugar solution of from

Under such conditions, the three-fourths wine and one-fourth good

Degenerative Fermentations. After Shaking, or adding fresh wine, is sure as the vinegar bacteria oxidize alcothat reason the vinegar barrel should in turn, destroy this acid and the vinenever be disturbed. To obtain a good gar loses its strength. Air is necessary supply of air, the cask should not be for this degenerative process, as well more than two-thirds to three-fourths as for the formation of acetic acid, and consequently, its exclusion preserves the strength of the vinegar. In this laboratory, honey wines which were progressing nicely and contained as much small amounts of honey wine are to be as one percent acid, have suddenly become infected and lost all acidity in a few weeks.

THE MAKING OF HONEY VINEGAR

Apple juice of good quality contains, bored in each end of the cask near the usually from 10 to 12 percent of sugar and yields a vinegar containing 6 or 7 percent of acetic acid. In making vinegar from honey it is desirable to start spigot is fitted and a perpendicular row with a solution containing as much or of gimlet holes bored and fitted with more sugar than apple juice. When wooden plugs to act as a gauga. Fresh low grade honeys are used, as the raw material, it is very easy to obtain the mented, can be added from time to proper dilution. Most honey produced time through a tube passing in at the in the arid region contains about 80 bung-hole and ending near the bottom percent of fermentable matter and may of the cask. In this way the active be weighed off and diluted with the off a little vinegar, or adding a little washings are used, however, they may fresh wine. The tube must not be of need strengthening or diluting. This metal, but can be of glass where avail- can be easily governed by the use of a able. In this region, a large stalk of specific gravity spindle, which may be been perforated with a hot iron, makes saccharometer is such an instrument, a very serviceable tube. A tin funnel arranged to read percentages of sugar may be used in pouring the wine into directly at 17.5 degrees C. (about 65 the tube. A similar apparatus has degrees Faht.) but for the present been found very serviceable in France purposes no attention need be paid to for converting table wine waste into temperature. In case an orginary vinegar. Such wastes, under suitable hydrometer is used, it should read from temperature conditions, yields good 6.8 degrees to 8.5 degrees Baume. or vinegar in ninety days. The generator from 1.048 to 1.061 specific gravity.

vantageous strength for fermentation. ened in luke warm water. If the finished product is stronger than honestly, in this case, after as before small way, but on a large scale the fermentation is complete. are absent.

proper strength, we next add the fertilizing materials and a little yeast. potassium phosphate is seldom to be on other chemicals to take its place. the rather expensive potassium phosphate and is to be recommended where large amounts of honey vinegar are made. These chemicals can all be obcents per pound. The small producer, who cannot afford to buy large amounts at wholesale, will experience much difficulty in getting potassium sulphate, but experiments in this laboratory have shown that potassium bicarbonate, a chemical to be had in every drug shop, can be substituted with nearly as good results. The chemicals are absolutely word to be considered adulterants. but not too salty.

by the small producer, we offer the for this space. following formula:

Strained honey Water 30 gals. Ammonia chloride 4 oz. Potassium bicarbonate 2 oz Sodium phosphate 2 oz

12 to 15 percent, which is a very ad- One quarter cake of dry yeast soft-

The chemicals for making thirty necessary, it can be watered just as gallons will cost about 25 cents in a The not more than 10 cents. yield will depend largely upon the pur-larger amounts of potassium bicaronity of the fermentation, and upon the ate and sodium phosphate, would give extent to which degenerative processes even better results, but the amounts are here cut to the minimum to bring Having prepared the diluted honey of the cost low enough to make it profitable.

In from three to four weeks all vis-As previously shown, the best material ible fermentation will have ceased and is ammonium chloride and potassium the yeast settled out. Now rack off phosphate, about one part of each per the wine, add ten gallons of good vine-1000 parts of solution. Unfortunately, gar, containing a little mother, and let stand undisturbed in a place having as had in the drug store and we must rely near as possible an even temperature of from 75 to 80 degrees Fahrenheit. This is best done by using sodium phos- The acetic fermentation may be started phate; of each about one part per 1000. by floating mother or the scum from an This combination is much cheaper than older cask on the surface of the mixture by means of thin cork shavings. Carried out in this way and a suitable temperature (temperature over 85 degrees Fahrenheit will retard the protained in large quantities for about 15 cess and cause loss of both alcohol and acid) a good honey vinegar can be produced in from four to six months.

#### LAYING WORKERS-QUEEN SCENT.

Jno. H. Heagy, M. D., F. H. S.

C DITOR AMERICAN BEE-KEEPER:

Perhaps at some time in the near harmless and are in no sense of the future some one of the many readers of The Bee-Keeper may have a lay-Care should be taken to secure well ing worker in some one of the colonies water of good quality, preferably hard of his apiary to contend with. Should such be the case it is well to be prepared Formula. When a barrel of honey to meet the emergency when it arises, vinegar is to be made for family use or such being the case is my only excuse

> Many ideas have been advanced in 40 to 45 lbs. trying to explain this peculiar phenomena and of these different ideas, as to cause, we leave you to your own choice of an explanation of it, for, we are not trying to explain the peculiar phenom

of a worthless worker and a still more the matter is, the queen was killed never will leave the hive on any pre-rule: text whatever. There was she reared no sense of locality whatever, and to near bees of any grade. this lack of the sense of locality.

breeder for sending a queen not

ena only to give a method of riddance purely mated, when the real truth of worthless layer. As an explanation of some time after she was seemingly the method, I call attention to the fact successfully introduced. To obviate that a laying worker never has, or these difficulties observe the following

On receipt of a fine queen by mail, and there she lives, never once leaving have a new cage ready to receive herthe hive. This being the case she has one that has never contained or been get rid of her we take advantage of queen by the wings and with a camel's hair brush wet in warm water gently Prepare a hive with starters or drawn brush her all over, wings, thorax, uncomb and after removing the hive that der side as well as upper side, go all contains the laying worker, place on over her and when done put her in the the old stand, take the hive, bees and new cage. Go to the hive you propose all having been shut in the night be- to introduce her to and catch a dozen fore, away quite a distance, say 100 or so youngest bees you can find (those yards, open it and shake out all the young little hairy fellows), put them bees on the ground, they will find their in with her, and then proceed as the new home on the old stand except the directions on cage tell you. Place the laying worker, who, never having been cage between the middle frames half out before, is lost and never reaches way down the combs. Push the frames the hive. Of course this is troublesome together to hold it there. Shut the to do, but as she cannot be distin- hive and don't bother for five or six guished from another worker is less days, when she will be eaten out and trouble than many other means ad-laying well contented, and the bees vanced to rid the apiary of a nuisance. well satisfied to recognize her as the Sometimes on introducing a new head of the colony. The object of the queen to a colony, according to the above is to remove all traces of exrules printed on the cages, the bees at traneous scent from cage and queen. once kill the queen; or if not at once To observe the effect of scent, just take they may accept her until she com- a cage that has been in several hives mences to lay; and then fell on her and long enough to acquire the scent of kill her, start a few queen cells and each colony, put in a full hive, and see rear a queen to suit themselves, while how angry it makes them. Why, it the apiarist thinks his queen is all acts just like a red rag before a mad right. Then when the young bees bull. Try a clean, new cage and obcommence to fly he cusses the queen serve how little attention they give it.

Black Lick Sta., Pa.

## Comments of a Curmudgeor.

Fond of Fiction, He Weaves a Delightful (?) Romance Apiarian.

JOHN R. RAGLE.

My greatest regret has been the ex- by me on Jackass Hill, a well-known tinction of a strain of bees discovered and truly classical spot, famous as havMark Twain, Prentice Mulford and every time. other celebrities.

The bees were found in an old tunnel where I went prospecting for gold, and I called them the "golden California" bees, not so much because of the color, but because their stingers were composed of minute slivers of genuine metal gold.

to Uncle James Gillis, owner of the a small crowbar into them and the hill, for an explanation. He informed stings often leave scars. A sure cure me that I had found the last of a variety propagated in the early '50's by an aged alchemist, when gold was so plentiful that even insects could not mud applied to the wound. The princrawl about the hill without becoming ciple of this and many other remedies incrusted with it. Just how the old is to keep the afflicted part warm and dreamer did it Uncle Jim never knew, air-tight, which allays the inflamation. as he and everybody else was too interested in gold digging at the time.

but the golden California poppy for quick Eastern supply maker could inand used gold-dust for pollen. On this buy. They cost me \$13.95 with freight, the boys and even men got to catch no more gold-dust to feed them.

ners.

When I begin printing my a, b, c, better, will take their places. book I shall keep a standing list of beesting remedies. That is one thing the that every up-to-date bee journal should beginner misses in all the books and have its fiction department properly papers. There are antidotes and the labeled. I submit the following, which beginner needs them.

ing been a resident place of Bret Harte the wound will keep down the swelling

Moistened soda is a natural antidote. It is well to know what remedy to apply in case a visitor or a neighbor's child gets stung. Bee literature treats the subject too lightly. The junior editor of the Medina supply house says that you cannot introduce the finest cambric needle into bee-stings. Now, This was so astonishing that I went as a matter of fact, you can introduce is to suck the poison out instantly. Dr. Miller, a well known bee-keeper and a graduate physician, always recommends

I own five Heddon hives, which are the thinnest, flimsiest, most worthlessly A distinguising peculiarity was that constructed warpy, ill-fitting, closedthe bees would not feed upon anything end "blasted-hopes" that any get-richhoney and that they always demanded duce a foolishly trusting beginner to account they became rather expensive and my bees during two seasons, to to keep in the latter days. Uncle date have stored eleven sections of James gave me the bees, only reserv- honey in them. If "Brother" Heddon ing twenty-five per cent., his usual doesn't quit fishing and look to what royalty for anything found on the hill, people are sending out and lauding as I took mine down to Tuttletown, but his "invention" then I sincerely hope that he never will get rid of the mysing them for the value of their terious disease that he seemed to think stings and my stock was destroyed be- his bees contracted in Prof. Frank Benfore I realized it. Uncle Jim's bees ton's Bureau. Surely no sane and starved for the lack of pollen, as he had honest man would invent and put on the market such things as I have been I am satisfied some enterprising cap- using for bees to store honey in. I feel italist could have made a fortune if he guilty of cruelty to animals in having had only organized a stock company to kept my bees in them. The hammer propagate and sell the bees to begin- gets them, for kindling wood, and thick, tight grocery-store boxes, if nothing

It has long been my dissenting opinion I have named "Old Beazer and Zed A wad of wet tobacco slapped over Doublebee; or, How a Romance Ended ters:"

#### CHAPTER I.

Old Beazer of Beeville, Bee County, in the State of Beekansaw, was, as you already may have inferred, gentle reader, a bee-keeper. He was deaf and had wheels and whenever he appeared the little rascals of the neighborhood would put their hands to their ears and say "Buz-z-z!" The reason why he had wheels was because he kept giving away his snap by continually writing to the bee papers about what a fine place his locality was for bee-keepers until young Doublebee, who was also a beekeeper, finally appeared upon the scene.

#### CHAPTER II.

Now, old Beazer was well fixed. He had 160 acres of land in the arid west and 90 colonies of bees in boxes. He also had a daughter. The plot thickens.

#### CHAPTER III.

Young Doublebee had nothing but four (4) out apairies on rented ground. He had no home apairy and did not own even a home. He was compelled to board, poor fellow, at two dollars, (\$2) per day at the "Commercial" or "Drummers' Retreat." But then he had fresh meat, and soup and pie every day, while old Beazers' family was limited largely to salt pork and cabbage and pure milk from cows.

#### CHAPTER IV.

Young Doublebee went to his outapiaries once a week in his automobile, run by denatured alcohol. All the rest of the time he played pedro (a game of cards) at the "Drummers' Retreat," especially in winter, when the bees did not require attention. At other seasons he had hired help at forty cents per day and "board themselves." This was a ruinous policy. Old Beazer said so.

#### CHAPTER V.

Now it must be understood that old Beazer had been keeping bees in the same boxes for twenty (20) years and

Happily—a short story in several chap- sometimes cleared twenty dollars (\$20) per year, besides having all the honey and bee bread he could eat himself, as well as some beeswax to sell to the shoemaker; while young Doublebee had only appeared that season, flooding the country with four hundred (400) colonies of bees in modern hives with dove tails. Old Beazer's hives, alas, had no tails of any kind.

#### CHAPTER VI.

The story is soon told, gentle reader. Old Beazer's bees nearly starved that season and young Doublebee, by his modern methods and feeding sugar syrup cleared \$5000, mainly because his Italians robbed old Beazer's blacks; and which sum, alas, he lost at poker, (another game of cards) in three nights, at the "Dummers' Retreat" by playing with a prepared pure extracted honey man from Chicago, whose firm always put a small piece of comb in every bottle to prove that it was honest.

#### CHAPTER VII.

Then, in the great proverbial generosity of successful bee-keepers, young Doublebee went and showed old Beazer how to feed his bees and thus carried them through the winter, ready for another season. In doing this he made the acquaintance of old Beazer's daughter and they were soon mar.ied, old Beazer forming but few objections.

#### CHAPTER VIII.

The scene changes. The next season came along and Doublebee's bees didn't store enough to feed their young. His crop was a complete failure. So was old Beazer's in the box hives, This was partly owing to the overstocking of the territory by the large number of bee-keepers who rushed in as soon as they read of young Doublebee's success. But old Beazer, you will remember, had 160 acres of land and young Doublebee sold his automobile and got in and pitched hay with the rest of them; and he and his beautiful bride, by living with the old folks,

managed to pull through till the next old Beazer had found a good farm hand season. By that time all the bees of and young Doublebee a good wife. both parties were dead with imported And they lived happily ever after. disease, wintering and starvation, old Beazer's mainly by innovation.

[THE END.]

Stent, Calif.



#### FRANCE.

#### ADULTERATION OF WAX

has decided to investigate the possibility ease to the latter. - Gazette Apicole de of determining whether a given wax is France. adulterated or not. A committee was appointed to prepare some mixtures, such as would be likely to be used and easily be identified.

But a mixture of wax 65 grains, Carnoba, wax 35 grains and ozokerite 50 process in recovering it. grains, could not be distinguished from genuine wax except that when saponified the proportion of acid soaps was wax can be successfully treated. The slightly greater. Further investigations process consists in putting the slumgum will be made.—L'Apiculteur.

#### BEE PARALYSIS.

hive. He thinks that the disease is not very heavy, remains under the water. very contagious, because the sick col- The water prevents any evaporation or onies were rather scattered throughout danger of explosion. Needless to say next ones first. He thinks that the ratus and can be taken out. The use

quality of the honey is the cause of the disease and gives as proof that some combs of honey taken from a diseased The Societe Comtoise d'Apiculture colony to a healthy one gives the dis-

#### WAX FROM SLUMGUM.

After extracting wax from the combs have them analyzed. The results were the residue, called here slumgum, is that the ceresin and stearin could never entirely separated from the wax and still contains a sufficient quantity of it to justify the use of a chemical

With the carbon bisulphide process, a slumgum containing one per cent. of in a vessel hermetically closed and strong enough to stand a considerable pressure. The carbon bisulphide is A reproduction of an article from an forced into it with a pump and is left Australian bee-paper is found in the there long enough to dissolve all the Bulletin of Alsace-Lorraine. The cor- wax It is then pumped out and forced respondent claims to have cured his into a distilling apparatus. A slight bees by feeding them with a syrup, to heating evaporates it and sends it which he added one spoonful of sulphur through the condenser into the vessel and five or six drops of Dr. Collis' where it is kept. This last vessel is chlorodyne per pint of syrup. He pre- not closed but contains a quantity of viously removed all the honey in the water. The carbon bisulphide, being A very contagious dis-, that when the distillation is completed ease would spread from a colony to the the wax is left in the distilling appaof pumps and hermetically closed ves- the last of June, after the main flow. sels is to prevent any evaporation of A hive gives from four to ten pounds of the carbon which can thus be used in- honey, which is sold for about 11 cts. definitely. The same apparatus can be per pound wholesale, and 20 cts. or used for many other uses. For in- over at retail. With modern hives and stance, extracting the last portion of processes, a surplus of 40 pounds exlinseed oil from the residues left tracted can easily be obtained. after the ordinary processes. Gazette Apricole de France.

#### ALGERIA.

The Society of Algerian Apiarists has published an interesting report, on beekeeping in that country. From the oldest historical times until now, beekeeping has been in honor in that part of Northern Africa: that is, Tunis, Algeria and Morocco, which are really recent divisions of the same old Punic region.

The climate is very favorable to beekeeping and the temperature rarely descends to the freezing point and is in summer about 80 degrees. In the high mountainous sections of the interior. the weather is much colder and the country is not so favorable to beekeeping.

The race of bees is a very black strain often called the Punic bees. They are quite aggressive, yet some strains more than others. The most aggressive are called by the natives goat-bees and the others sheep-bees.

They are very prolific, swarm excessively and are very lavish in the use of propolis. The colonies can be bought from the natives for from 40 cents to a dollar each.

The hives used by the natives are rats made in the form of a cylinder of pot- Rucher Belge. tery, something like a sewer pipe laid on the ground. Sometimes a circular allowed to retain its natural form, The ends are closed by pieces of bark superful of combs oft means a superful on boards or by a mixture of clay and of fruit blown honey when otherwise it cut straw.

until the brood is reached, usually about combs worth caring for?

#### BELGIUM.

#### POISONOUS HONEYDEW.

In a portion of Hanover, in 1903, a very heavy honeydew was observed on the oak trees. The bees gathered it as fast as possible, but it proved to be poisonous, producing a kind of paralysis. Not only the bees but the ants which gathered it perished also. At the end of the week a heavy rain put an end to the situation.-Le Rucher Belge.

#### WINTERING IN THE GROUND.

In some portions of northern Europe it is customary to dig a hole in the ground sufficiently deep to put in the hives, cover them with planks, put some straw on and finally put back the dirt and thus bury the bees for the winter, until warm weather comes again. In describing the process, Mr. Dricot insists on the necessity of having the hole sufficiently large to leave an ample space under and around the hives. The surplus air thus provided is sufficient to carry the bees through the winter without having them smothered. Careshould be taken that no water can get in. And no rodents either. Le or other

Put all your spare combs where rats piece of cork tree bark is cut out and and mice cannot get them. They are worth too much to be neglected. A would not be stored. That honey means The honey is cut out from the back end from \$4. to \$6. to you. Ar'n't those

#### THE

#### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

#### THE W. T. FALCONER MFG. CO. **Proprietors**

PUBLISHING OFFICE..... FORT PIERCE, FLA. .... FALCONER, N. Y HOME OFFICE.....

HARRY E. HILL......Editor ARTHUR C. MILLER... Associate Editor

#### TERMS AND PRICE OF SUBSCRIPTION:

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line. Special location, 25 per cent extra, Cuts inserted

without extra charge

the following: Three months (3 times) 10 per cent. Six months (6 times), 20 per cent. Twelve months (12 times), 30 per cent.

#### HOW TO ADDRESS.

The home office of The American Bee-Keeper is at Falconer, N. Y., and all matters relating to subscriptions, discontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office.

Matters relating to the editorial department—manuscripts, photographs, or correspondence in

any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida

#### DISCONTINUANCES.

The American Bee-Keeper will be sent continuously until it is ordered stopped and arrearages, if any are paid. Those who wish the paper dison tinued at the expiration of the time for which they have paid, have only to request that it be done, and no copies will be sent thereafter.

#### SUBSCRIPTION RECEIPTS.

We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wrapper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or requesting the paper discontinued at expiration of time paid for, as may be desired.

#### Danger in Some Foul Brood Laws.

At the time of the vetoing of Missouri's proposed foul brood law, we fense at our remarks, saying they were paper. Let us help one another.

wrong from every point of view, and maintaining that there was no danger of incompetent persons becoming inspectors or of the arbitrary and wanton destruction of bees or fixtures.

In California, where bee-keeping as a business is recognized as one of the important industries of the state and where it would be presumed the beekeepers would have a voice in the selection of inspectors under their law, which is much like that proposed for Missouri, incompetent men have secured the jobs and the very evils we forecasted for the latter state, are being experienced.

It is to be hoped that bee-keepers of other states will take warning from the misfortune of their brethren in California and have present laws so amended as to prevent such evils, and, if possible, some provision made for at least partial compensation in cases where destruction of property is unavoidable.

If the papers which so vociferously clamored for arbitrary foul brood laws will now give equal publicity to the Californians' troubles they will perform a good service for bee-keepers, even if it does reflect on their own earlier judgment.

#### Conventions.

The Southern Bee-Keepers' convention will be held at Atlanta, Ga., October 11-12. The Connecticut bee-keepers will meet at Hartford, Oct. 12. The annual meeting of the Missouri people comes off Oct. 2-3, at Marshal. National convention, as announced, is to be held at San Antonio, Tex., Nov. 8, 9 and 10.

If you find THE AMERICAN BEEattention to what would be KEEPER interesting or helpful, kindly possible and probable under the statute speak of it to your friends who are inas framed, had it been enacted. Some terested in bees. The more subscribers of the champions of the bill took of- we secure, the better we can make the

#### Study the Bees.

Despite the thousands of years that bees have been kept by man only a little is known of their habits. Thanks to a few diligent scientists we have a very fair knowledge of the bee's structure and through the efforts and enthusiasm of some practical bee-keepers we have hives which give us ready access to the bees' home, but notwithstanding the possibilities offered by this combination the progress of discovery of the "why" of the bees' actions is painfully slow. This is partly due to the desire for immediate results in the shape of honey; partly to the misguidance caused by accepting without question statements in text-books, and magazines devoted to bees, and still more to the fact that prejudice and financial interest prevent some editors and publishers from printing anything which casts any reflection on the accuracy of the work and statements of authors on whom they depend for support and advertisements. The result is the constant traveling in the old ruts. the endless discussion of manipulation and appliances.

How many of such wordy wars would be quickly and permanently decided if are water-tight. Better give them a the participants knew what bees really fresh coat of paint. Make all entrances do and why they do it? Such knowledge mouse-proof either by means of queen would put a damper on the sale of many excluding zinc or wire-cloth new contraptions, would end the per- meshes large enough to pass a bee. Be sistent change from big to little hives sure no mouse is already ensconsced in and back again, so dear and so profit- the hive before the guard is put on. able to supply dealers and would stop the expensive and wasteful changes in super styles.

try to learn more about the life of the shipments being frequent items in the bee, knowing that every bit of ad-manifests of ditional knowledge regarding it will steamers. The steamer Bradley brought apiculture an exact science, thereby making it more certainly profitable, doing away with the present day guessing and aimless manipulating.

present to our readers a few new facts ingly indolent person spending many

seemingly slight, have great bearing on current practices, and we hope will stimulate further study and observa-

#### Fame Made to Order.

"You pat my back and I'll pat yours" is on old dodge in many fields besides that of apiculture. Some papers have made the reputation of some of their correspondents because these persons helped their business. The man boomed as a close observer and who boasts of the hours he has spent studying the bees is not always all he is painted. This would not be an outsider's concern did not such mutual admiration copartnership result in loss to many innocent and confiding persons. In the past we have shown the error of some of the statements of the made-to-order authorities and we will soon tumble over some more of their card houses.

#### Preparing for Winter.

If you winter your bees out of doors put on the tarred paper wrappings or outer cases before the hives get soaked with the fall rains. See that all covers

A Columbus (Ga.) dispatch says that much Florida honey is being shipped to We have long urged our readers to northern points via Columbus, honey Chattahoochee river bring us one step nearer to making nearly sixty barrels of honey on its last up trip.—Zolfo Advertiser.

"How doth the little busy bee" must join the growing host of fables, for in-During the coming months we will dividually Mistress Bee is an exceedabout bee life, some of which, though sunny hours sweetly sleeping in a cell.

#### Decline of Farm Bee-Keeping in New England.

Less than a quarter-century ago many farmers in Vermont and New Hampshire made bee-keeping an important part of their business, but now one may travel for many miles and not see even a solitary hive. Why is this so? Can any among our readers give us light on the subject?

Surely there are hundreds of families who would welcome the addition of honey to their larder if it was to be had for the taking and a few former beekeepers with whom we have talked, bemoan the fact that they now have no

The keeping of a few bees on the hill farms will not hurt the market or increase competition but will materially help the families having them. Mr. Geo. W. Adams, of Byfield, Mass., a practial farmer has guided many another farmer into the successful care of enough bees to keep his own table supplied, thereby adding to the pleasures of his family and at practically no cost to him or them. Mr. Adams is to furnish us with some articles on bee-keeping for farmers which, as we know Mr. Adams and his practical ways, we can assure our readers will be worth reading.

#### New Things are Interesting.

New things, novelties, always appeal to the public and when such chance to be in the line of our pleasures or our business all too many of us are prone to plunge in more deeply than is wise. tate to try one or two queens if you can sample of the product.-DeLand (Fla.) afford it but do not "plunge" heavily. Supplement.

#### Pure Honey.

In the supplemental proclamation, Circular No. 19, which supersedes circulars No. 13 and 17, issued by the U. S. Department of Agriculture, entitled "Standards of Purity for Food Products," "Honey" is thus defined:

- 1. Honey is the nectar and saccharine exudations of plants gathered, modified and stored in the comb by honey bees (Apis mellifica and A. dorsata); is lævo-rotatory, contains not more than twenty-five (25) per cent of water, not more than twenty-five hundredths (0.25) per cent of ash, and not more than eight (8) per cent of sucrose.
- 2. Comb honey is honey contained in the cells of comb.
- 3. Extracted honey is honey which has been separated from the uncrushed comb by centrifugal force or gravity.
- 4. Strained honey is honey removed from the crushed comb by straining or other means.

#### Observation Hives.

The person who designed the singlecomb type of observation hives now on the market, "surely was not a beekeeper, or at all familiar with the conditions which make for success in handling these minature colonies. We will soon give our readers an illustrated article on the making and management of such hives. It will help the enthusiasts to have bees to study and play with all winter.

The pinewoods around DeLand are full of wild bees, and from the quantity of honey taken from the trees cut, it is New races of bees, particularly when evident that this has been a good season their supposed merits are glowingly set for the busy workers. One day last forth, always appeal to the bee-keeper week Mr. Paxton and his "boys" cut a with almost irresistable force. We wish small tree on the plantation of the Deto save our readers disappointment and Land Naval Stores Company, that loss-to help them up, not down, hence yielded about seventy-five pounds of we again caution them against making fine honey in the comb. Mr. Paxton rash test of the new races. Don't hesi- has our thanks for a fine and liberal

#### The Best Medicine.

Mother had been ailing for more than a year when Margaret came to work for us. She was the most bashful creature I ever knew, excepting the hired man, who I am sure often went hungry because Margaret sat opposite him at the table. One day, as mother and Margaret were alone, the bees began to swarm. Grabbing two kettle covers, Margaret rushed out beating wildly and shouting, "Hank! Hank!"

Mother managed to crawl to the open door in time to see Hank come dashing up to the scene of action. But the bees meanwhile, mistaking Margaret's hoopskirts for a hugh hive, had taken shelter within their hospitable embrace.

"Where's the bees!" gasped Hank. Margaret hung her head and blushed, and Hank, thinking he was being guyed

started off.

"Come back," called mother, beginning to laugh, for the first time for a year. "Take a stick and rap on Margarer's dress.''

It was now Hank's turn to blush, which he did to perfection; but placing a hive at her feet and fixing his gaze on the sky, he gently switched her skirts, thus persuading the bees to come down and take to their hive. And all the while mother sat and laughed. From that day she began to mend and in two weeks was doing her own houseworka well woman! She always claimed that laughed cured her-Mrs. H. E. Ellsworth.—(From the January issue of Homemaker.)

#### Convention Notice.

The Fall Meeting of the Connecticut Bee-Keepers'. Association will be held Friday, October 12, 1906, in Room 50 of the Capitol building, Hartford, beginning at 10.30 a.m. Members will please note date, which is earlier this year. As a special effort is being made to get into touch with the 2500, or more, beekeepers that it is believed are scattered over the state, it is earnestly desired

that every member and friend of the Association not only arrange to attend the forthcoming meeting, but send lists of bee-keepers to the secretary, at once to enable him to extend a personal invitation to as many as possible.

J. ARTHUR SMITH, Secretary. Box 38, Hartford, Conn.

#### HONEY AND BEESWAX MARKET.

Cincinnati, Sept. 18.—The demand for comb honey is good; fancy and No. 1 selling freely at 15c and 16c. Lower grades not wanted at any price The market on extracted honey is quiet, as quantities remain unsold, from last season. Quote amber at 512 to 7c according to quality. Fancy extracted white clover at 7½c to 8c. We are paying 29c and 30c for choice, yellow bees wax, free from dirt.

The Fred W. Muth Co.

51 Walnut St.

Worcester, Sept. 11 -We have received no new worcester, sept. If — we have received no new honey as yet. There would not be much of a market at present as out trade does not commence much before the first of October. Weather must be coller in order to make a demand, We expect quite a quantity of Vermont honey the last of this month and are looking for quite a good market, probably about the same as last season. Perhaps the supply may be so large that it will be precessary to self a little lower but think good. necessary to sell a little lower, but think good quality will be in good demand at steady prices. There seems to be quite a crop this season. No doubu supply will be equal to the demand. W. H Blodget Co.

Kansas City, Sept. 12.-The supply of honey is light. The demand is good. We quote our market to-day as follows; Comb, fancy white, per cuse 24 sections, \$3.00, extracted, 5½ to 6½c. Beeswax 25c. We look for a steady demand right C. C. Clemons Co.

Buffalo, Sept. 10.—The supply of honey is very light and prespects for a poor crop hereabout and we look for excellent prices. Selling now fancy 16 and lower grades 10 to 14c. Think it will be easy to please this season. Write us if interested in Buffalo Soon as fruit is over we look for a

big and sharp trade at satisfactory prices Batterson & Co.

Chicago, Sept. 8 -The receipts of comb honey are quite large, and there is also a good cemand for it, so that prices are well maintained at 15c and 16c per lb. for No 1 to fancy: anything short of these grades is not selling freely and ranges from 1c to 3c per lb. less; buckwheat 12½, dark grades 8c and 10c. Extracted white 6½c and 7½c, amber 6 and 7c, dark 51/2 and 6c. Beeswax 30c per pound. R. A. Burnett & Co.

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THE FRED W. MUTH CO., 51 Walnut St., Cincinnatti, Ohio. Standard Bred Red Clover Three-banded Queens, Golden Italians and Carniolans. Safe arrival guarantee. Send for circulars.

BRIGHT three and five-banded Italian Queens by return mail. Untested, 65 cents; tested, 85 cents, J. L. FAJEN, Alma, Mo.

QUEENS HERE.—We are still asking you to give us your trade. We sell Italians, Goldens and Carniolans at 75c for untested and \$1.00 for tested. Prices on quantities and nuclei upon application. JOHN W. PHARR, BERCLAIR, TEXAS. Jan. 6

SWARTHMORE APIARIES, SWARTHMORE, PA.—Our bees and queens are the brightest Italians procurable. Satisfaction guaranteed. We are breeding the Caucasians absolutely pure from direct imported stock.

W. W. CARY & SON, LYONSVILLE, MASS. —Breeders of choice Italian bees and queens. Imported Leather and Root's Red Clover strains. Catalogue and price list FREE.

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HONEY QUEENS AND BEES FOR SALE.— I extracted 300 pounds per colony in 1903. THOS. WORTHINGTON, Leota, Miss. Aug 5

THE A. I ROOT CO., Medina, O.—Breeders of Italian bees and queens.

QUALITY QUEENs are the best Italians yet. Send for circular. H. H. JEPSON, 182 Friend street. Boston, Mass.

BREEDING FROM SELECTION MERELY rejects the poorest. Long harvests, high mountains and deep blossoms improves the best. For queens bred along this line address for particulars, C. W. DAYTON, Chatsworth, Calif.

W. J. DAVIS, 1st, YOUNGSVILLE, PA. breeder of choice Italian Bees and Queens Quality, not quantity, is my motto.

D. J. BLOCHER, PEARL CITY, ILL—Caucasian and Italian Queens reared in separate yards. Safe arrival of all stock guaranteed. Circulars and price list free.

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WE are now booking orders for Providence Queens for spring delivery. Cull & Williams, Providence, R. I.

HOOPER BROS.' Italian Queens reared in the West Indies are the most prolific and give the best results available any time of the year. Write at once for information to Kingston, Jamaica, B. W. I., Box 162



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#### HONEY DEALERS.

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I AM IN the market for some good Eastern white and amber extracted honey. I prefer solid candied honey in new barrels. State your low-est terms delivered. C. L. Todd, Hartwick Seminary, N. Y

### Cent-a-Word Column.

A. H. REEVES-Distributor of Root's Bee Supplies for northern New York, Beeswax wanted. Perch River, N. Y. oct 6

FOR SALE.—UNTESTED ITALIAN QUEENS .60c each, two for \$1.00. Tested \$1.00 each.
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AGENTS WANTED—To sell advertising novel-ties, good commission allowed. Send for cata-logue and terms. American Manufacturing Concern, Falconer, N. Y.

FOR SALE-45 colonies of bees, excellent strain, no disease, several hundred hives, foundation mill, dipping tank, Cowan honey extractor and numerous other appliances. Located in Florida. Cheap for cash, Address, S. B. C. care American Bee-Keeper, Fort Pierce, Fla.

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WANTED:—by Chicago wholesale and mail order house, assistant manager (man or woman) for this county and adjoining territory. Salary \$20 and expenses paid weekly: expense money advanced Work pleasant: position permanent. No investment or experience required Spare time valuable. Write at once for full particulars, and enclose self-addressed envelope. Address. GENERAL MANAGER 142 E Lake St Chicago. GENERAL MANAGER, 143 E. Lake St., Chicago. sept 6t

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Our queens now stand upon their merits and former record. We are preparing for next season, and seeking the patronage of large apiarists and dealers. We do not claim that our queens are superior to all others, but that they are as good as the best. We will furnish from one to a thousand at the following prices: Tested, of either race, \$1; one untested, 75c; 5 for \$3.25; 10 for \$6; 15 for \$8.25; 25 for \$12.50; 50 for \$23.50; 100 for \$45. For descriptive circulars address,

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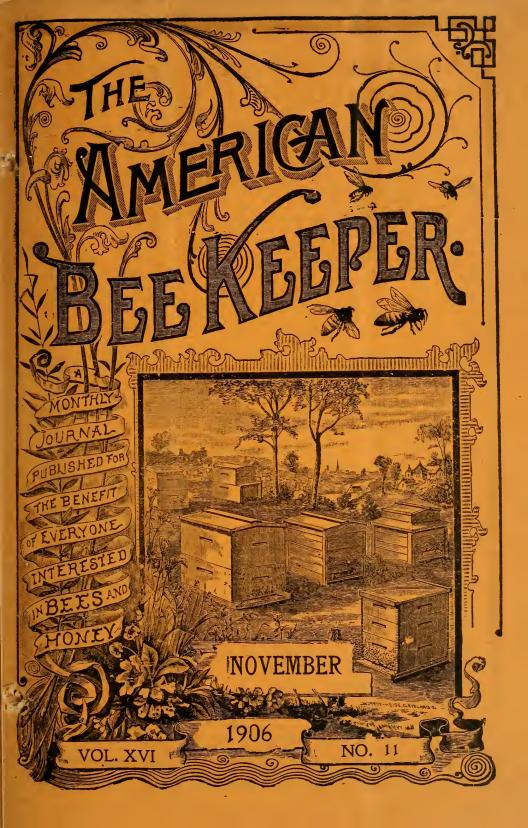
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The American Bee-Keeper, Falconer, N. Y.



Entered at the Postoffice, Fort Pierce, Fla., as second-class mail matter.

Vol. XVI

NOVEMBER, 1906.

No. 11

# Worcester County Bee-Keepers' Show

The First of a Series of Educational Exhibits to be Made in New England.

BY A. C. MILLER

CEPTEMBER 24, 25 and 26 the hustl- and Mr. Cary, Jr., of Lyonsville, ing bee-keepers, of Worcester Mass. county, Massachusetts, held an exhibiin Horticultural Hall, Worcester. It ceived with close attention. similar affairs.

The hall is in the heart of Worcester's business district, and its use was tional only on free entry to the public, and favor on exhibitions held therein. The hall has been constantly filled and was steadily changing.

ful honey producer; Mr. Allen Latham, scientific features. of Norwich; Dr. Lyon, of Rye, N. Y.; The display of bees, honey, etc.,

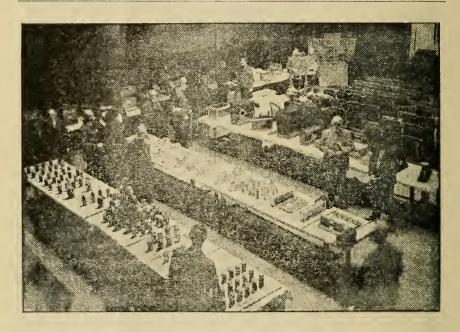
Some of the lectures were "technition of bees, honey, implements, etc., cal, "others "popular," but all were rewas the society's first attempt at any- before mentioned in these columns the thing of the kind, and is planned and remarkable interest which the public of promises to be, the forerunner of many Worcester evinced in matters apicultural, and this exposition has vividly shown that the interest in growing.

Mr. Burton N. Gates, president of given to the bee-keepers' society condi- the Bee-Keepers' Society, kept things moving right along, and much of the which has learned to look with interest success of the exposition has been due to his unflagging interest and tireless efforts. He was ably seconded by Mr. except during the lectures the crowd A. A. Hixon, the genial secretary of the Horticultural Society. The bee-Among the more prominent of the keepers not only of Worcester county lecturers were Dr. E. F. Phillips, of but all of New England as well, should the U.S. Department of Agriculture; be very grateful to them for what they Mr. R. H. Holmes, of Shoreham, Vt., have done and are doing for the inan enterprising and remarkably success-dustry, both in its commercial and its

while not large was sufficiently com-

went to Mr. J. S. Whittemore, of Lei- opened for sampling. cester, Mass., for honey from apple Mr. Latham had some honey vinegar, bloom. It certainly was as near per- which he came near loosing. Dr. fection as we need ever ask. The sec- Phillips sampled it and "took to it." ond prize went to Mr. Shepard, of He could hardly be blamed, it really Sturbridge, for white clover, and the was good enough to drink, and the rest

prehensive to be of educational value. blossom honey from Owanita, Fla., Many kinds and colors of honey were produced by a Mr. Wheeler. It was shown, ranging all the way from light not quite perfect having been kept for and delicate apple and clover honey to some time and subjected to some rough that as black as Porto Rico molasses. handling. It was white and smelt The first prize for extracted honey faintly of orange bloom, but was not



APIARIAN EXHIBIT, WORCESTER.

third to Mr. Cheney, of Worcester, for of us helped him to "sample it." apple bloom, and had this latter been a There was bread, cake and preserves little lighter in color it would have made with honey and some were very been a sharper competitor for second. fine.

One interesting and unique exhibit name and initials.

On the stage at one end of the hall was that of a Mr. Lobdell, who had was a large wire cloth cage in which several dozen bottles and tumblers in demonstrations with bees were made. which the bees had built their comb. These were decidedly a popular fea-These attracted much attention. A ture of the show. The bees for these Mr. Holmes had combs showing his demonstrations were generously furnished by Mr. Cheney, of Worcester,

who, by the way, is quite an investi- cribed in an early number of THE BEEgator in practical apiculture. He fur- KEEPER. It is already used in several nished the writer with some interesting colleges and by a number of men of notes on Punics and Caucasians which scientific training. we will print in another place.

at all times. This hive will be des- ting an opportunity to instruct them.

The purpose of the show was to en-The new form of observation hives lighten the public on the wholesomewhich are the source of much of the ness of honey and its varied uses, and AMERICAN BEE-KEEPER'S exclusive in- the display of bees, implements, literformation were the center of much ature, etc., was but a part of the attraction, a crowd being about them means for drawing the public and get-

# Why Drone Comb is Built.

### An Interesting Discussion as to Cause and Effect.

BY ALLEN LATHAM.

N PAGE 184 Mr. A. C. Miller of- rows of onions. But the illustration is ly, if not altogether, in error.

Mr. Miller leaves the building of have any force? drone comb wholly to chance, the bee Though it is obvious that bees are thing without a reason.

opinion, for I have no proof.

"When drone comb is being built we A swarm will often, if not usullay, find that the clustering is less compact," continue to build worker comb till a says Mr. Miller. Of course, says every- week or so after the first new bees

fers an ingenious explanation for not good, for the rows are fixed. Let the building of drone comb, and more us say planting, for then the men dethan one of his statements is very con- fine the space between the rows. Is it vincing, yet, much as I should like to not obvious that bees must work less agree with the entire article, I must compactly while building drone comb confess that I think Mr. Miller is large- than while building worker? Why then does this argument of Mr. Miller's

to build drone comb only when certain less compact while building drone conditions mechanically force such work comb, does it follow that it causes the upon the bee. Though I am not one to drone-comb-building, or does it merely believe that the honey-bee uses reason, occur as a result of this work? Right that is, logic, I do fully believe that at this point I would take an exception the bee is a creature of conscious to what Mr. Miller, at least, implies. action. Though the bee has not the I will venture to say that a vast power of reason, she rarely does a amount of drone comb is built under conditions tending to be anything but The bee may be "a graving tool less compact or crowded. Mr. Miller mounted on jointed levers" and the has noted with fair completeness the size of cell may be due to "a greater times and conditions under which drone or less arc," but this tool has an indi- comb is built, but he leaves out one viduality and it controls the arc of its very important item. Namely, drone radiating mandibles. This is just my comb is built when there are a host of graduating nurse-bees.

one else. When men are hoeing ad- emerge in the new colony. As these jacent rows of potatoes they are less new bees become numerous they crowd compact than when weeding adjacent down to the edges of the combs and to

the last of the worker comb was built. offer positive for my own. The same phenomenon can be seen here is a desire for male bees.

ing of the queen. Under the pressing pigglety conglomerate. the comb mentioned in the preceding crowded compactly to keep warm? paragraph, will not be immediately is immediately stored with new honey. store-room.

in the last paragraph? Simply a mat- ing spots of drone comb. ter of economy,—economy of time and tion to its honey-holding capacity than crevice. does worker, and that done cells can be obey an impulse which calls for the Drone and worker combs frequently drone comb.

the outside of the last comb, and there to offer any proof for this theory. I they build drone comb. This drone can only offer a theory with little or no comb is always built under more proof. Offering negative proof for Mr. crowded conditions than existed when Miller's theory is far easier than to

And yet it is not easy to offer negaearlier in the season, in the old colony, tive proof. If I cite instance after Allow a colony in spring the space of instance of worker comb built when an extra frame and watch results. the cluster appeared to be dense, Mr. Along in late May there is an influx of Miller has but to say, "But you know, graduating nurse-bees to that space, Mr. Latham, that the difference in the and in a few hours a great deal of clustering is merely a matter of one comb, all drone, will appear. This twentieth of an inch; a difference so comb will almost invariably be used by slight that you would overlook it." Ah, the queen immediately. The impulse but is this very slightness not a great stumbling block in the way of theory? In a time of great honey flow bees Can so slight a matter cause the buildwill build drone comb. We call it store ing of one kind or the other kind of comb, but there is no need for this ex- comb? If so, it would seem as if we tra term, for all comb built by bees is could never succeed in getting one solid either worker or drone, that is sooner comb of worker or of drone comb, but or later all comb is subject to the lay- that every comb would be a higglety-

need of a place to deposit their rapid- Put 50 bees into a box and they will ly accumulating stores the workers build comb, and always worker comb. build drone comb. This comb, unlike Will Mr. Miller say that they are

Watch a new swarm. After about taken possession of by the queen. It eighteen days the edges of the combs are all worker and though but sparsely Here we see that the impulse which covered with bees, they are still growcaused the drone comb was need of ing. After 30 days again look; the combs can not be seen for the crowds Why do bees prefer to build drone of bees, but upon running the bees combunder the pressing needs mentioned aside there will be seen several nucleat-

In early summer or late spring the wax. It needs no explanation upon my bees crowd the hive to overflowing. part to make clear to everyone that At this time they tuck little patches of drone comb requires less wax in propor- drone comb into every corner and

In my long hives with their twenty built always, if not quite, as rapidly as crosswise frames the honey apartment worker cells. The worker may not of 12 frames offers abundant opportunthink what she is about, but she does ity for the study of comb building. alternate. Sometimes three or four Now all this is a thing difficult to all-worker combs will be followed by a prove, one way or theother. Mr. Miller single drone, or oftener three or four has offered a theory. He probably all-drone combs will be followed by a would not even suggest that he meant single worker comb. Again a comb

will be a mixture of the two kinds. Sometimes the very last frame will be a solid drone comb, again a beautiful worker comb.

In this matter of comb building I is because of the compactness. have again and again run up against a Unless my observations have been too loosely tabulated, I find that bees build more drone comb with young queens than with old queens. this very day I was cutting out comb honey from these hives, and I found that there was less worker comb in the hives containing the younger queens. One fine old queen is in her fifth year. She never led out a swarm, and she rarely lays eggs in drone cells. Her bees build a great deal of worker comb back of the excluder zinc. Right here, though it is apart from my subject somewhat. I would venture to say that in these large hives I have found that queens under two years of age are much worse for drone laying than are two and three-year olds. A queen in her second year filling all available drone comb with brood, while many a queen in her third season leaves vacant drone comb right in the midst of the brood-nest. Explain this, if you can.

Norwich, Conn.

#### REPLY BY ARTHUR C. MILLER

The following reply to Mr. Latham's article has been submitted to him and with his assent is here printed:

Yes, I leave the building of drone comb-and worker also-wholly to chance, the conditions which chance to exhist at the time. Years of careful scrutiny of the bee, with steadily increasing mechanical aids in the work, have converted me from a belief in the bees' intelligence or reason to that of considering them but little than reflex machines. has not the power of reason she rarely bees "preferring" to build drone comb does a thing without a reason," says under certain conditions. Mr. Latham. Change that last word time, the bee has no regard for it to "cause" and we will agree perfectly whatever, spending many sunny hours so far.

Yes, bees work less compactly while building drone comb than while building worker, but the compactness is not because of the cell size but the cell size bees are there always before the cells

Graduating nurse bees do not of necessity or consequence produce compact clustering. "Crowded conditions" as man considers them do not by any means make crowded conditions as bees feel them. "The impulse for male bees." Yes, an uneasiness, a nervous restlessness, causing drone comb.

Mr. Latham specifies conditions under which a queen does and does not occupy drone comb. Her use of it or non use are the result of her or the colony's condition after the comb is built. Only the effect on the colony of her condition when the comb is build. ing can be pertinently considered in relation to its construction. need of store room" as a cause for drone cells, may be put thus: at loss for a place to put their loads bees are "uneasy" cluster loosely, we will say, hence the size of cells.

In Mr. Latham's long hives, where he gets some sheets of drone comb interspersed with sheets of worker comb it should be noted that this comb is built at intervals during the late summer and fall of one year and the spring and early summer of the next, a period long enough to afford a multitude of comb building "waves" or periods.

Let man produce conditions of unrest among the bees and drone comb results. During such periods clustering appears to be less dense, hence the deduction that the size of the cells depends upon the density of the cluster. Mr. Latham speaks of "economy in "Though a bee time and wax" as a reason for the Regarding literally sleeping in the cells. In the

aggregate of the bees of a colony acsurplus in relation to the opportunities the stage at the fair grounds. for its use and the bees using it.

ing the indolence of bees and certain that we will have a good attendance. habits are matters of absolute knowltiated by other observers.

Providence, R. I.

#### THE NATIONAL CONVENTION

Secretary Hutchinson sends the following for publication:

The following letter has been received from Udo Toepperwin, of Texas.

San Antonion, Texas, Sept. 20, 1906. We have made arrangements for the National Nov. 8, 9 and 10th. selected the Market Hall in this city to hold the convention. This is a very good hall. It will seat 1,000 people. We have selected the Grand Central from a California apiarist: hotel as headquarters for the bee- EDITOR AMERICAN BEE-KEEPER: keepers. These people guarantee to agement. I believe that the bee-keep- stitch in time saves nine," is as true ers will be highly pleased.

We have also planned a trolley ride complish much, but individually the and a Mexican supper, and the San bee is the personification of laziness. Antonio people will elect the sweetest As to economy of wax. In a general lady between 16 and 20 to be queen of way it may be stated that there is a the convention, and this lady will be insurplus of wax produced at such times troduced to the bee-keepers, and preas drone comb is being built, I mean sented with a handsome gold watch on

Thursday, November 8th, is bee-I am perfectly well aware that some keepers' day at the fair and advertised of the statements I have made above that way by the fair Association. I are radically at variance with tradition believe it would be a good idea to go and belief, but my statements regard- ahead and advertise the convention, so

The Grand Central hotel, which is to edge and further have been substan- be headquarters for bee-keepers is only one block from the I. G. & N. passenger station, so it would be well to mention that bee-keepers better buy their tickets so as to arrive over that road, then they will have only one block to walk to be at home. all cars connect with the other depots, and pass by the hotel, yet it is more convenient to simply step off and walk one block.

#### A PHILOSOPHICAL ADMIRER OF THE BEE-KEEPER.

The following was recently received

I greatly enjoyed "Curmudgeon's" accommodate 50 bee-keepers, and think article, as also your editorials. You that they can accommodate 100. What- put more "juice" in one line than those ever they can't accommodate they will "would be" censors in a half column. find out nice rooming places for them Still it is an enormous undertaking to in the neighborhood of the hotel, In attempt to install "truth." I heard a this way, all bee-keepers can have a man the other day talking about a chance to stay not far from the con- "revolution" and the laws and wages vention hall. The hotel has 100 rooms, the people would get; I reminded him all very fine and furnished nicely. It that there has never been a revolution is a brand new hotel,, and we have but what was caused through the lack secured special rates for bee-keepers of intelligence of the people. If the of 50 cents a berth, and 25 cents a people were intelligent they would cormeal. The restaurant is separate from rect the laws and law makers when the hotel, but all under the same man-they first begin to be refractory-"a today as it ever was.

C. W. Dayton.

found out in the orchard it is left to seven-eights material. hang, or the boys shake it into a box Well the bees are in a box and the and a few laths or sticks and construct When there are 10 to 16 short frames

TECHNIC OF FARM BEE-KEEPING. They rather take a chance on a watch or a rifle.

Nor they cannot go to a neighbors and get a pattern of a cheap hive to YOU ASK SOME questions as to work from unless it is a hive this neighthe cause of the decline of farm bor has not science enough to use. A bee-keeping in New England. It is no farmer could no more make a Hoffman more the case in New England than frame than he could make a wooden anywhere else. I know of three farm- water pail, and I suppose he thinks the ers between my place and the city who shape of the top and side bars the only have bought from \$5 to \$10 worth of shape that bees will work on. Then hives and supers and sections, which also the sides of the Langstroth hive they keep stored in the loft of the barn are too long to be constructed of oneand do not know how to get their bees half inch or three-eighths lumber, the into them. If they had obtained these kind used in boxes to be had at stores. fixtures before they got the bees they It causes them to be flimsy, shaky and would probably have hived the bees in knotty and altogether unsatisfactory. them; but it is not like farmers or That is one of the main advantages of anyone else to buy several dollars' a shorter frame-a 13-inch hive of oneworth of truck he never expects to half inch lumber is as substantial as need. So when a swarm of bees is an eighteen-inch hive constructed of

as a matter of amusement. Then the farmer cannot get even a little of the bees store honey and the box becomes honey so the bees are allowed to keep heavy and this draws the farmer to it all. The bees crowd the brood-nest realize that if the honey was in a shape so full of store that early and small so it could be obtained he might enjoy swarms result, until the old colony besomething more than pork fat on his comes queenless. Then the honey is griddle cakes. It is the "heft" of the robbed out by other bees and a mess of old box that causes the purchase of the moth-eaten combs only remain. If his "boughten hives" and sections; but small swarms are hived in the Langafter they get them they do not know stroth hive they seldom utilize the how to use them and I just advise whole length of the frames at once so them to trade them off. Farmers that after part of the bees of the would never buy incubators if they did swarm becomes engaged in brood-rearnot find that there was money in poul- ing and another part have gone out as try without incubators. They buy in- fielders the ends of the long frames are cubators to facilitate their present pay-likely to be finished out by pieces as ing business. Farmers and farmers they want more room to store honey so boys have spare time, as we see them that the ends of the combs are crooked sitting about the barn, on the porch or crosswise of the frames, making the in the shade of a tree. If they could colony in no better condition than if it pick up a comparatively worthless box was in a box. No frames are movable.

a sort of a movable frame hive out of in a hive it is seldom that some of them it they would do it and put them up in cannot be gotten out. When one is the barn or woodshed to await the out it affords access to more. At least arrival of a chance to put a swarm into some honey can be procured. Even 10 it; but, not so when a mere hive out- pounds is enough to send a farmer fit for one colony costs several dollars after a swarm of bees. But if no honey is obtained the bees become a Before leaving the table there was disgust.

cause a commodity is produced on a fallen in amount consumed.

Chatsworth, Calif.

#### THE NATIONAL SOCIETIES.

C. S. Ferry.

Editor Rural Bee-Keeper:

tion, we commenced work at once.

about \$200.00 pledged. We at once In all my marketing of honey to con- drew up a subscription list and on this sumers I always found that my first last day of the convention in only a few and best customers were persons who hours, we had subscribed \$790.00. Even had once kept bees themselves, or else on the street car going to train one their children. It was almost the sal- subscribed, and just before going vation of retail trade that there were through the gate to take train for home such people. It is said that the desire one bee-keeper came to me and wanted or taste for honey or any other com- to know if I was in the Honey Producers monly used food causes a chemical committee, and said he wanted some change in the brain as well as through- stock, and subscribed at that time. out the system and that the dearth of Your directors felt quite pleased. Upon sweets and their substitution with returning to our homes, which were meats and vegetables creates a chemiquite a distance apart, the remainder cal change which opposes sweets. Not of the work was slow. We had incoronly in respects to sweet food in gen-poration papers drawn up, as well as eral but the chemical change creates a by-laws, etc., and some of the money desire for honey especially. Some pre- paid in, what was supposed to be our fer to call it taste or memory. Pray brothers in the great National Beetell what is memory and taste? Is it a Keeper' Association, bolted from the something which grew into their sys- National and started and incorporated tem without a cause or stimulus? Be- the National Honey Producers' League.

With this league staring us in the broad scale, is that a reason they will face, we thought it wise to go slow. It wish to consume it? The more the has now "petered out," as it was not a small-fry bee-keeper and farmers have honey producers' league, for the prodropped out the more the market has tection of the honey producer and his interests; but was started and composed of fixture, commission men and editors of journals who make their living out of the honey producer.

When this league found they could not work the honest honey producer, what did they do? In order to pull the N AN ARTICLE on page 55 of your wool over the eyes of the honest honey journal, Rural Bee-Keeper, July producer again, they came to the Nat-1906, you desire to know what the ional Association and offered to turn directors, appointed by the committee, over what money they had, to the Nat-(which was appointed at the National ional (with a string on it) to be used Bee-Keepers' Association of St. Louis) for the same cause as it was subscribed have done regarding the forming of the -more wool over the eyes of honey National Honey Producers Exchange producers. Now these supply dealers, of America. As one of the directors, I commission men and editors have had will say that we have done as directed their inning and have showed there by the National Bee-Keepers' Associa- hand. Are we honey producers going to take much stock in them? The honey While at the table eating our next producers say No? The honey producers meal this subject was discussed in an say by their co-operation, and indeapproving manner, and some wanted to pendent movements in the different subscribe for stock at \$25.00 per share. states that they are ready to co-operate

and find where they can buy beebee-keepers' associations have a contract with manufacturers, not in any price.

I think this will answer your question: "What has the directors appointed at St. Louis by the National Bee-Keepers Association been doing regarding forming "The Honey Producers Exchange

of America?"

Mount Vernon, N. Y.

#### TEXAS MEETING THE OF BEE DISEASE EXPERTS

UNITED STATES DEPARTMENT OF AGRI-CULTURE, BUREAU OF ENTOMOLOGY. APICULTURE, WASHINGTON, D. C. October 5, 1906.

Dear Mr. Hill:

You will find enclosed a provisional work have agreed to be present. program for the inspectors' meeting to be held in San Antonio, Texas, November 12th. Excursion rates are not available so that this meeting can be held on the 7th as was expected and the change of date was therefore necessary.

Yours very truly, E. F. PHILLIPS. Acting in Charge of Apiculture.

PROVISIONAL PROGRAM OF INSPECTOR'S MEETING.

San Antonio, Texas, November 12, 1906 . Demonstration of bacteria of bee diseases - Dr. G. F. White, United States Dept. of Agriculture, Washington, D. C.

History of Bee Disease Inspection in Wisconsin-N. E. France, Inspector of apiaries for Wisconsin, Platteville, Wisconsin.

General discusion of existing bee disease laws-An examination of laws now in force and suggestions for most effective legislation.

The Introduction of European foul keepers' supplies as good and much brood into Michigan-W. Z. Hutchin-Members of five states of son, Inspector of aparies for Michigan, Flint, Michigan.

The Inspection of European foul combine, to supply bee-keepers' sup- brood in New York-Charles Stewart. plies in small quantites at wholesale Inspector, 3rd District of New York. Sammonsville, New York.

> Foul Brood on the Pacific Coast-F. A. Parker, former Inspector, Santa Barbara County, Lompoc, California.

The present status of the investigation of bee diseases-Dr. E. F. Phillips, United States Department of Agriculture, Washington, D. C.

Reports of Inspectors from the various states and counties on the progress of inspection.

This program is subject to such changes as may be necessary but it will indicate the character of the meet-All persons interested in bee disease inspection are urged to attend. A number of persons prominent in this

> Respectfully yours. E. F. PHILLIPS. Acting in Charge of Apiculture.

#### BEE-KEEPERS BY THE CARLOAD.

EDITOR AMERICAN BEE-KEEPER:

Arrangements have been completed for a car-load of bee-keepers from Chicago, joined at St. Louis with another car-load, to go to the National convention Nov. 8, 9, 10, at San Antonio, Texas. Meetings in Market Board and lodging at special reduced rates at Grand Central Hotel. Nov. 12 in same hall there will be a meeting of all the United States and Canada bee inspectors; other beekeepers invited. The latter meeting conducted by the U.S. Dept. of Apiculture. Land-seekers excursion rates, at dates to attend above.

> N. E. France, Gen. Mgr. N. B. K. A.

Subscribe for the BEE-KEEPER.

#### THE MINNESOTA STATE FAIR.

#### Walter R. Ansell.

THE MINNESOTA State Fair was held this year Sept. 3rd to 8th in extremely pleasant weather for sightseers.

The honey exhibits were quite up to the average notwithstanding a general complaint of short crops. There were several new exhibitors with very good samples of honey which must be encouraging to the management, who have communicated by circular with over 1000 bee-keepers in the state, the names having been furnished by the Committee on Co-operation, of the Minnesota Bee-keepers' Association.

Too little encouragement has in late years been given to new exhibitors and it is well that it should be known that such will be welcome and may expect a fine share of the very handsome premium list (\$500) given by the Minnesota State Agriculturist Society.

It is expected that the Minnesota Bee-Keepers' Association will arrangements in the future to care for small exhibits from the country which it would not pay the exhibitors to accompany personally.

Another need of the future, according to many exhibitors, is the selection of a competent judge by the exhibitors themselves, who, with the exception of one or two of the large ones who absorb most of the premiums, have never been consulted on the subject.

The exhibits of bees showed a marked improvement over former years. Not only were there more entries than usual for premiums but the general standard was higher; no doubt owing, partly to the increased amount of mountain, a hundred miles away. premiums offered and partly to the Department by the installation for the weed when a stem is broken. almost normal conditions.

erable quantity of preserves "put up with honey." Experience has taught us that honey is misplaced for such use as sugar has equal preservative qualities while being cheaper and less liable to discolor the fruit or taint it with a flavor not its own.

The comb honey was possibly a little below the standard and was certainly in smaller quantity than usual. make up for this the show of extracted honey was both finer and larger than in past years.

The first premium wax was decidedly inferior being of a dark color, indicating a presence of dirt. This article should be paid more attention to by bee-keepers, as the production of clear bright wax is important and not difficult.

The supply dealers were fully represented though no premiums are offered them.

A pretty part of the exhibit which shouldbe very instructive was the granulated honey.

#### CALIFORNIA NOTES.

Bees have been getting a little honey all along and will probably continue for two months. Good colonies add a little to their present stores and poorer colonies get a living: not from the mountains, but from the stubble fields. A small weed about 12 inches nigh, with a blue blossom, or a raceme of blossoms, about the style of an alfafa blcssom. It is called, here, vinegar weed. The honey is light in color and insipid in taste. From my gate I can look across 50,000 acres of such stubble fields, and beyond is seen San Jacinto

Then on the grass lands is another official encouragement of the State late honey yielder resembling a milk third time of a large observation hive growth resembles asparagus after the of a full colony of bees working under asparagus has run to up seed. It has many slim, long branches bearing flow-One striking feature was the consid- ers about the size of a dime and about

three inches apart closely set on the ists between the colonies wintered out branches. It looks like sticks with of doors and those wintered in a cellar. purplish-white stars distributed here The figures given in Langstroth are at and there. It looks very odd. The least twenty-five pounds of honey for bees hum to it every morning for two colonies wintered out of doors. This or three months and they leave the will do to take a colony safely through apiary with a busy roar. I can't find the winter and through an ordinary anyone who can name it. It is not spring anywhere in the United States. described in any of the botanical books Still it is better to have ten pounds I have examined.

Lately I received several queens from my locality. eastern breeders and I have introduced on their noses and eyes in search of weather comes. water. Bees will rob on water nearly as bad as on honey in these dry climates. tered out of doors begin brood rearing top cut out is kept sitting by the table the cellar. And early brood rearing on a box to save trips to the honey means lots of bees at the time the harformed a crust on it, as if it had been of honey if there is any at all to be boiled-like candy near the "stringing" point. C. W. DAYTON.

Chatsworth, Calif., Sept. 20, 1906.

#### A\_SERMON TO BEGINNERS.

#### Adrian Getaz.

will be to see that the colonies have brood rearing much sooner and keep on

enough," and that was right.

more if possible. At least it is so in

Some explanations are in order. The them by the hatching-brood plan. The advocates of indoor wintering insist first ten days in September was so that it saves considerable amount of cold that I had to keep them in the honey. Well, it does, but the saving is house in a tank with quilts over the more than lost later on. The difference tank and a lamp under it. The last is more than offset at the very start four days have been just the opposite- by the fact that the bees wintered out a hot wind from the desert, direct. I of doors (if they are sufficiently prohad severed my water pipe about a tected) come out in the spring in better quarter of a mile away to change ite health. They have the advantage of course so I have to tie the horses good cleansing flights during the early nearly half a mile away to keep them part of the winter and again towards from being pestered by bees alighting spring whenever a warm spell of

But that is not all. The colonies win-A five-gallon can of honey having the several weeks before those that are in I notice this dry spell has vest comes, and lots of bees means lots gathered.

It is astonishing how much honey a colony raising a large amount of broad will or can consume, and that is where the great difference between the two modes of wintering originates. So far as mere living through the winter is WELL, THE WINTER will soon be concerned, there is but little difference, here. The important thing now but the colonies out of doors begin enough provision to go over the winter. increasing it and keeping away ahead "How much?" will ask the beginner. of the others through the whole season. Somebody answered once in a conven- It takes lots of honey to do that. Early "Entirely too much is just in the spring most of the bees must remain at home to keep the brood The actual quantity varies according warm. Only a limited number can go to the size of the colonies, the length to the field. Even if there is plenty of of the winter, the weather, more or nectar to be had too many bad days of less cold, etc. Quite a difference ex- cold or rain intervene. Even during

they can raise and unless there are am- It would be better to extract it and reple provision in the hive they will be place it with sugar syrup. compelled to curtail brood rearing, which means a curtailed amount of surplus obtained later on. In fact I have had colonies starved during fruit blossom and even poplar blossoming time a whole week or more of bad weather happened.

Of course, when warm weather comes it is possible to feed, in the spring if the colonies are short of food. The trouble is the apiarist never finds it out until it is too late. If a week or more of cold, raw, rainy weather comes it is almost impossible to open the hives to see whether there is enough food or not without damaging the colony considerably. Then the weather may be too cold to permit the bees to take the food. So take my advice and feed "more than enough" now before the winter comes. It will pay you and pay big to do so.

#### HOW AND WHEN TO FEED.

The sooner the feeding is done the better. If the locality is such that there is no fall flow, or the weather is so dry that there will be none, even in localities where there would be one in more favorable seasons, the feeding can be done early. In such cases, the process I have already described will d). But there is nearly everywhere more or less nectar to be gathered from the fall flowers, and the apiarist will not be willing to feed more than necessary and will wait until the flow is over, and then complete what may be needed.

As to what to feed: I will say unhesitatingly, feed granulated sugar syrup. Good honey is too valuable and bad honey is liable to cause dysentery in the colony. Honey dew, especially, mist be avoided. Better extract it if the brood nest is full of it and replace it with something better.

I have sometimes had trouble by the

fruit blossom time the bees cannot honey gathered in the late fall granugather enough to feed all the brood lating and becoming unfit for bee food.

> While inferior honey will not do for wintering it can be fed in the spring or at any time that the bees are flying freely.

I would use the Eastman or Alexander feeder or any that enables the apiarist to feed without opening the hive and without permitting robbers to get at the food. The Boardman and other entrance feeders are objectionable.

In feeding for winter (unless it is done very early), the raw syrup, as described in a previous contribution, cannot be used because it is liable to granulate. Use twenty pounds of sugar to one gallon of water and one ounce of tartaric acid. Put on a slow fire until the sugar is dissolved, stirring constantly and boil for ten minutes, thus making a syrup which is very near like honey, is perfectly healthy and will not crystalize.

If the weather is already too cold for the bees to come down to the feeder, put the food in as hot as possible. The heat will warm them up and enable them to get it. The supers should have been taken off as soon as the last flow was over, so that the bees could seal the cover down with propolis, while the weather was warm enough yet to do it. The feeding should then be done as soon as possible, so as to give the bees a chance to fix their provisions for the winter to the best advantage.

Before feeding, the apiarist wants to know or estimate how much honey is in the hive. There is no way to do it but to open the hives and look at the frames. A space of comb of the size of a section, well filled on both sides will weigh a pound. With this in mind the apiarist can guess near enough how much there is.

EMERGENCIES.

For some cause or other the feeding

may have been delayed until the weather is quite cold—too cold for the bees to leave the cluster. In that case put the feed as hot as possible in any kind of can or jar that may be at hand. Tie two or three thicknesses of cloth over it and invert it over the frames above the cluster after having taken off the cover of the hive. Put on a super (or two if the jar is too high for one) and pack all around and above the jar with rags. The warmth of the food and what little will leak, will wake up the bees and enable them to take up the food. Needless to say that the cover should be replaced. Give at once all that is needed.

Knoxville, Tenn., Sept. 1, 1906.

#### IOWA HONEY CROP FAILS.

Clinton, Ia., Oct. 14.—The first carload of honey ever brought into Clinton reached here this morning, consigned from California to L. Iten & Sons, who operate one of the largest cracker factories in the United States. The firm has heretofore obtained the supply of honey necessary for the manufacture of certain kind of cakes from the home This year, however, the apiaries. honey crop in eastern Iowa and western Illinois failed and the company found it necessary to send to California for the The car contained about 30,000 honey. pounds.

#### The New Raccs.

Two bee-keepers of Worcester, Mass., a Mr. Cheney and a Mr. Harris, have been testing the Punic bees, and Mr. Cheney the Caucasians, with the following results:

#### PUNICS.

These bees look very much like our Blacks except that their chitin is more of a blue-black.

They handle like Italians and are of fairly good disposition.

They begin work earlier and stop later in the day than other races and work on cooler and more inclement days. They cap their honey wretchedly. For their disposition to work early and late and on cool and cloudy days they may be worth something for some climates, and may be worth some efforts at development through breeding. In many other respects they are surpassed by many other races.

#### CAUCASIANS

Look like Blacks.

Handle like the best Carniolans.

Mr. Cheney's colony gave him about 120 pounds of extracted honey, 37½ pounds of which was the apple bloom honey which took third prize at the Worcester show. The rest of the honey contained much honey dew, of which he extracted 59 pounds and the rest granulated in the combs.

The Punic queens were imported from

England.

The Caucasians were raised by a reputable breeder in this country and were sent out as purely mated. (M.)



#### FRANCE.

DIVERSE NOTES.

Simmins process. This consists having the queen to be introduced caged alone without food for half or three-Dr. Brunnick states that he has never quarters of an hour and then smoke the lost a queen when introducing by the colony with tobacco and run the queen in at the entrance.

Once he found a dead queen before a hive. He thinks she must have been dead for several hours before he saw her at about 10 o'clock a. m., because the bees, though without queen, did not seem to pay any attention to her. That same day at 10 o'clock p. m. he dissected the queen and found the spermatozoa in her fertilizing pouch living and moving briskly.

Once he had given a virgin queen to a baby nucleus or something similar (the neuclus box had only one comb and had glasses on both sides), when he saw one of the bees coming toward the queen with evidently hostile intentions. The queen went toward her and stung her several times. She died at once.

On another occasion when giving a virgin queen, the queen was stung on the left side of the thorax. The bee succeeded in extracting her sting. The queen did not die and eventually was fecundated and is doing good service. The only effect of the sting, as far as can be seen, was to paralyze the middle leg on that side.

M. Brunnick claims that by the Simmins process, he has successfully introduced queens to colonies having laying workers. - L'Apiculture Nouvelle.

#### BELGIUM.

#### PREVENTION OF SWARMING.

Mr. Lacoppe-Arnold gives the following plan and says jit has always been successful with him. Take from the hive all the frames with the adhering bees and put them in an empty hive. Then brush off all the bees at the enswarming.-LeRucher Belge.

DRIVING BEES.

Temporary aspyxiation is recommended when for any reason drumming cannot be used to dislodge bees; for instance, when the weather is too cool, or when the bees are decidedly a vicious. Take a wet cloth the size of the hand, sprinkle over it a quarter of an ounce of powdered saltpetre, then roll it in the shape of a cigar. It must be prepared in advance so as to be thoroughly dry when used. Dig in the ground a hole about six inches deep and a little smaller than the hive. Give the bees a little smoke just to keep them in and take the hive off from its bottom and put it over the hole. Stop the entrance and all the cracks except a hole to blow the smoke in. Light the "cigar," put it in the smoker and and smoke the bees. In a few seconds the cigar will be burnt. Plug up the hole. Then comes an intense roaring, a cry of agony that becomes feebler and feebler and finally ceases completely. Wait four minutes, then lift the hive off, giving plenty of air to the bees. When they begin to stir they can be directed to any hive you choose. In half an hour they are in as good health as ever. While waiting during the four minutes, a few sharp raps given to the hive will dislodge the few bees that may not have fallen. Thus treated any colony will accept a new queen. Several can be united without trouble. Any queen not found otherwise can be secured. - Le Rucher Belge.

#### OLD CURE FOR FOUL BROOD.

About 1790 a very simple cure for the bee pest (foul brood) was given to the bee-keepers of that time. trance of the old hive putting back the advice was to put the diseased colony combs in the old hive as fast as they in the condition of a swarm. As there are brushed. Destroy all the queen were no frame hives in those days, we cells, replace two of the combs by presume the bees were driven out and frames of foundation and add a super. put in a new hive. Very likely the old The bees thus treated are completely hive was to be burned completely, hives, disconcerted and abandon all notion of combs and all; though nothing is said on that point.-Le Rucher Belge.

THE

#### AMERICAN BEE-KEEPER

PUBLISHED MONTHLY

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scriptions, oiscontinuances, changes of address, advertising or other business should invariably be addressed to the Falconer, N. Y. office.

Matters relating to the editorial department—manuscripts, photographs, or correspondence in any way referring to articles that have been or are to be published, should be addressed to The American Bee-Keeper, Fort Pierce, Florida.

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#### SUBSCRIPTION RECEIPTS.

We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wranper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or re-questing the paper discontinued at expiration of time paid for, as may be desired.

Evidently the captains of the National Association have not heard that there take such chances. (H.)

#### They Are Coming Slowly.

Slowly and surely the other bee papers are yielding to our hammering and are beginning to give their readers fragments, often warped and twisted, of what has been going on in the bee world during the past year or more. Why not tell them the whole truth, gentlemen, and nothing but the truth? They are sure to learn it sooner or later and then what will they think of you? We refer not only to matters regarding the politics of the bee world but to practices in the art of apiculture. The Journal has just dared to hint at the possibility of evil existing in the practice of sugar feeding, taking for the text of its editorial an article which appeared in the Canadian Bee Journal. Never mind, Bro. York, the plain bee-keepers know who first took up the fight against the sugar habit. We hereby challenge the defenders of that habit to offer one grain of proof that honey or sugar syrup in the brood nest does not usually, aye, most always, get carried to a considerable extent into the supers. The shifting of stores up and down in the hive is almost like the beating of a heart. (M.)

It is reported that the Rev. Emerson Taylor Abbott, America's noted traveler, contemplates a journey to Texas this month. We suggest Mr. Abbott carry with him a cake of ice and a couple of hot brick, in order that his favorite temperature may be maintained. Mr. Abbott nearly perished with the cold in Florida at one time. (H.)

editors invite correspondence upon bee-keeping subjects, with all subscribers of the Rural Bee-keeper. The policy of the AMERICAN BEEare three cases of genuine yellow fever KEEPER has always been to maintain in the city of Havana. They are still as close an acquaintance as possible talking of going to San Antonio. It with its patrons, and thereby be betcan hardly be that knowing, they would ter able to recognize and serve their nterests.

#### The Rural Bee-Keeper Suspends Publication.

Mr. W. H. Putnam.

nam's ability. each and all join our circle with assur- vice to all at some time. ances of welcome, and lend all possible assistance to the work of adding spice and interest to our columns and that of extending the subscription list. There is probably but one other bee journal in America enjoying so wide a circulation as THE AMERICAN BEE-KEEPER, though it is one of the youngest. This popularity is a result of its independent stand for the rights of the producer; and our efforts in their behalf shall continue until THE AMERICAN BEE-KEEPER shall become a household word wherever the English language is spoken.

Every Rural subscriber, as well as our thousands of old patrons, is cordially invited to take an active interest in our work, by sending in items and soliciting subscriptions. We do not ask our friends to exercise their efforts in hehalf of THE BEE-KEEPER without remuneration. We gladly pay for ser-(H.)vice rendered.

The following from Mr. Putnam explains itself:

#### FAREWELL.

River Falls, Wis., Oct. 1, 1906. To the Subscribers of The Rural Bee-Keeper:

Dear Friends:-It has seemed best to me to discontinue the Rural Bee-To the list of young bee journals re- Keeper. The problem that then concently suspended has been added the fronted me was how to fulfill my obliname of the Rural Bee-Keeper, River gation to my loyal subscribers. I have Falls, Wis., edited and published by accordingly arranged with the AMERI-CAN BEE-KEEPER to fill out the unex-In the matter of typographical neat-pired term. I wish to ask you to acness The Rural was, perhaps, at the cept this substitution. I have formed head of the list of American bee papers. very agreeable acquaintances through It was one of the very promising ven- the medium of the Rural Bee-Keeper. tures and did much credit to Mr. Put- I am sorry to give up the paper, and I The American Bee- hope I may continue to hear from them Keeper has taken over the subscription through the medium of the AMERICAN list of The Rural, and all unexpired sub- BEE-KEEPER. I hope the advertisers scriptions will be filled by this journal. who have been so kind to me will now THE AMERICAN BEE-KEEPER shares place their advertisements with the the regret which Rural readers must AMERICAN BEE-KEEPER. I heartily feel in losing the latter journal, but we thank one and all who have helped me trust they may find this paper a satis- to make the Rural Bee-Keeper what it factory substitute, and that they will was, and hope I may be of some ser-

Yours very truly, W. H. PUTNAM.

#### Of Interest to the Boys.

The American Boy is the greatest boys' magazine in the world. It is profusely illustrated and always contains an abundance of wholesome and interesting matter presented with a view to the development of the boys' manly traits, and to appeal strongly to his nobler impulses, thus aiding him greatly in the building of character necessary to a life of success and usefulness. It is all presented in such a way as to interest any boy. It is a boys' paper, of boys' affairs, and should be read by every boy.

The subscription price of the American Boy is \$1.00 a year, but we have a ranged to club it with the AMERICAN BEE-KEEPER, sending both papers for only one dollar-just the price of one.

Nothing could make a more appropriate Christmas gift for any boy than this magazine for a year. If you subscribe now he will get the Christmas number.

#### Importance of a Water Supply.

The fact that water is hardly less important to bees than is honey itself, and that they are quite as persistent in their efforts to procure a supply for "family use," is interestingly demonstrated by the experiences of Mr. Dayton, noted in this number of The BEE-KEEPER.

It is doubtful if bee-keepers generally throughout the North Atlantic states and the Middle West (Mr. Abbott excepted, of course) appreciate the importance of an adequate water supply near the apiary, nor of the quantity of water required by an apiary during the season of brood-rearing. The writer has seen a half-barrel of water, which constituted the sole supply for a mountain apiary of 200 colonies, disappear in two days. During this time the bees constantly swarmed, with apparent delight, about the water and kept up a veritable stream of water carriers to the hives. No doubt some of the work of emptying the half-barrel may be attributed to evaporation, though during the sunny hours its surface was practically shaded by the myriads of bees, which would greatly reduce the percentage of evaporation.

On the islands of the Florida coast, where bees are sometimes kept temporarily, and which are surrounded by tide-water, the fresh water supply is often very meagre, and sometimes wholly absent. Under such circumstances bees will as readily detect any fresh water that may be carried to the islands by their keeper, as they would an open vessel of honey during a dearth of nectar, and their determination to appropriate it to their own use is no less obvious.

The dews of early morning usually afford, to some extent, a small supply of water for the bees; and, fortunately, water in abundance is generally available from other constant sources, so that the matter is rarely given any attention by bee-keepers; yet, in many

instances, no doubt, the brood-rearing of spring is quite as seriously hindered through neglect on this point as by a shortage of honey or pollen in other localities. (H.)

#### Keep a Weather on 'Em.

It has been brought to our attention that under the guise of being earnest workers for the Independent movement some are using their utmost effort to obtain positions of influence and power in the new and reorganizing societies. The interests that have so long manipulated affairs for their own profit are not going to sit meekly by their avenues of income and see Where they cannot openly blocked. direct affairs they are using persons who, while considered friends of the honey producers, yet will do the bidding of their employers. Some good men are so working, having been made to believe that they are best serving the interests of all concerned.

Bee-keepers must carefully consider all candidates, judging them by their works and their associates rather than by their words, for the Devil can quote scripture and wolves are as ready as ever to masquerade in sheep's clothing. Eternal vigilance will be the price of liberty here as elsewhere. (M.)

In a recent issue of the Farmer ard Busy Bee, Editor Abbott goes out of his way to apply to a certain gentleman a description which appeared in our columns shortly before. We do not know what Mr. Abbott's object was in so doing. It certainly could not have been kind regard for the feelings of the person he so fulsomely eulogizes. If to him it seemed to fit a friend of his the least he could have done would have been to refrain from saving so. As neither of the editors was present at the meeting referred to we were dependent entirely on our correspondents as to conditions and persons, hence the indefiniteness of our specification. (M.)

#### The Cuban Situation.

There has been some anxious speculation in bee-keeping circles as to the ultimate outcome of the present Cuban turmoil and its effect upon the honey industry of the United States. Dr. Miller, in Gleanings, however, assures us that Cuba will not be annexed. This appears to be one of the things the Doctor does know. It would be comforting to know that he knows, but we fear he knows not. However, the admitting of Cuba to the sisterhood of States, in open competition with our producers, would not necessarily entail the loss of our pursuit in the United States.

The various sections of the United States produce varieties and flavors of honey peculiarly their own, and each will continue to maintain a monopoly upon its own variety, as heretofore, even though Cuba should become one

periodical insurrections. It would be tification. vasily cheaper to assume permanent control of the island's political affairs, by our readers will be appreciated .-and derive the revenue accruing there- (H.) from.

In the event of Cuba's final annexkeeping or other industrial enterprises. to those who regard its honey-producing advantages as superior to our own. But it may never be annexed.

thereof." (H.)

#### Notice.

In order to KEEPER, and to avoid, as far as possi- lay member. (H.)

ble, the degree of confusion bound to result from the wide separation of its offices and its editors, we again invite the attention of our readers to the fact that the business office is located Falconer, New York. All letters referring to business matters of whatever nature should invariably be so addressed.

The publication office is at Fort Pierce Florida, where all contributions for publication or letters pertaining articles, either for future publication or have been published, receive prompt and careful attention.

The address of Mr. Arthur C. Miller, associate editor, is Box 1113, Providence R. I., and matter for publication submitted to him, as above, will be promptly reviewed and reported.

Probably no two men in any given pursuit hold views exactly alike upon the various phases involved, and in order that our readers may readily identify the authorship of future editorials It is not within the province of hu- in these columns, and thus save us the man knowledge at this date for any time and expense of transmitting a man to foretell the form of government heavy volume of correspondence from which the future holds for Cuba. It is Providence to Fort Pierce, and Fort improbable, however, that the United Pierce to Providence, beginning with States shall continue indefinately to in- this number and continuing hereafter vest millions in the quelling of her each item will carry an initial for iden-

A careful observance of these points

Secretary Hutchinson, of the Nationation, the island then becomes avail- al association, announces in The Reable for settlement and pursuit of bee- view that he will positively decline to accept the office another term, and expresses a desire to see Mr. Jas. A. Green, of Grand Junction, Colo., elected W. Z. has been acas his successor. "Sufficient unto the day is the evil tively associated with the National for many years, and much of its success is attributed to his indefatigable efforts. While his numerous friends of the facilitate prompt and Association will regret to learn of his direct attention to all matters pertain-decision, he will doubtless enjoy the ing to the management of THE BEE- tranquility which is the portion of a

At San Antonio, Nov. 12th, instead of Nov. 7th) the Inspectors of Apiaries of various states will hold a meeting for the purpose of discussing their work, its conditions and its needs. The report of this meeting will appear in the bee-papers later.

· We wish, however, to call attention now to a few facts, knowledge of which by the mass of bee-keepers may tend to guide them in their attitude toward and relations with the inspectors and the laws under which they work. Owing in a few instances to incompetent persons getting these responsible positions, and to the discreditable attempts by some men to secure similar positions, considerable distrust and ill feelings exists. But most of the inspectors are conscientious, hard working, self sacrificing men who, at ridiculously small pay, are doing a splendid work for the craft. This is particularly true in the case of some of the California inspectors. These men are hampered by lack of sufficient means, by inadequate laws by having the disease return from adjacent states having no inspector, and thus year after year having to do their work along the state lines over and over again.

At the coming meeting the inspectors hope to agree upon a general form of a statute which will appeal to all reasonable men, and so be easy of passage in states now having no law on the subject. They hope to so frame it as to make difficult the appointment of incompetent men, to provide sufficient means to properly conduct the work, to safeguard the interests of the individual bee-keepers, and at the same time give make their labors effective.

jently complete to enable them to speak have them successful. (M.)

The Inspectors' Meeting at San Antonio. intelligently on the subject and to furnish the information needed by the inspectors in their approaching conference. (M.)

> In the October 15th Gleanings Mr. N. E. France has an illustrated article in which he sets forth that in an apiary of over one hundred colonies. where black building paper is used for winter and spring protection, the loss from both wintering and from spring dwindling is not over two percent! The editor says never a word. It may be recalled that he once said that he tried "virtually the same thing-a hive wrapped in paper and a wooden case slipped over it." Something like putting your undershirt over your rubber The tarred paper wrapping which the A. B. K. was the first to exploit and which it has so persistently championed has come to stay even if it does interfere with the sale of outer cases and chaff hives. By the bye, how comes it that Gen. Mgr. France furnishes a trade paper with illustrations and copy intended for the National Report before he sends it to the members? The honey producers had an idea that he had learned wisdom from his previous entangling alliances and would hereafter fight shy of them. (M.)

Gleanings announces to its readers that it will soon publish serially a translation of a German scientist's work entitled "Are Bees Reflex Machines." The work is of much interest but other scientists have questioned the accuracy of the author's conclusions and have shown wherein they think he erred. We expect to present to our readers the inspectors the necessary powers to the other, and we believe the more rational side of the case and we feel Naturally the basis of such a law sure it will interest them and we trust must be a full knowledge of the various prove of value to them by bringing diseases of bees. Studying these has them a little nearer to a perfect underfor some time been the work of trained standing of the habits of the bee on men, and their labors are now suffic- which they must base their practices to

#### The Questionable Virtue of Minding Everybody's Business.

The Rev. Emerson Taylor Abbott, in his mongrel magazine, which divides its attention between apiculture, building hen-coops, scientific methods of weaning bull pups and vituperative onslaughts upon those who fail to see things in general through his own spectacles, displays his dominant trait of character to unusual advantage, in an effort to belittle the editor of the AMERICAN BEE-KEEPER. He likens us to a snarling cur, and thinks our diet must consist of vinegar and Indian turnips.

This exercise of Mr. Abbott's crowning virtue (?) constitutes one of a series time to spread manure. He ought not of similar insults directed at various to, though. members of the apiarian fraternity, and is a result of the publication in extensively. The common people, howthese columns of an item referring to ever, to which class the editor of THE some "old man" at the Jenkintown BEE-KEEPER belongs, cannot well afmeeting of the New Jersey bee-keepers ford the luxury of extensive travel. last summer. Mr. Abbott thinks the had absolutely nothing to do with the occasions. authorship of the item, nor had the craft, and, possibly, might some time ever in their wake. attain to positions of prominence heretofore denied him by fraternal suffrage notwithstanding his determined efforts to get there.

Here is another of Mr. Abbott's brilliant sorties: "By the way, has anyone ever seen the editor of the AMERI-CAN BEE-KEEPER at a convention? We never have. He writes sometimes as though he had never been twenty miles from home."

With all Mr. Abbott's various accomplishments it is not remarkable that he should presume ordinary mortals to possess exhaustive funds of profound wisdom in regard to every phase of apiculture, journalism, parliamentary work and extending into the depths of the most minute details of agricultural problems—even unto the eradication of chicken lice and the most propitious

We presume Mr. Abbott has traveled

As to the conventions, perhaps it is item was a reflection upon Mr. A. I. just as well that the editor of THE BEE-Root, which he seeks to vindicate by a KEEPER has not found it convenient to glowing tribute to the venerable gentle- attend, for who knows but his presence man, and a tirade of insults aimed at also might be depressing to the peace-"Brother Hill." In Mr. Abbott's con-loving attendants, and become the cause tinuous performance of publicly striv- of thrusting such disgraceful scenes being to right some fancied grievance, he fore the meetings as those presented is usually found to be completely off at Los Angeles? Perhaps the conventhe track, and this instance is no ex- tions would lose but little if our critic ception to the rule, for "Brother Hill" were less in evidence himself upon such

The writer is not a convention worker slightest idea as to its intended applica- and he is content to leave this branch Whether Mr. Abbott's guess is to other more capable and experienced or is not correct, the writer does not men; but this is the first intimation we know. Of one thing, however, he feels have had that it is a crime for one to very certain, and that is, if Mr. Abbott forego the ambition to run the earth would exert himself as much in matters and the fullness thereof as some seem of legitimate concern to himself as he bent upon doing at all hazards, even does in minding other people's business though they become a laughing-stock he would be more popular with the of the craft and leave consternation (H.)

None poorer, save the man who naught can'do but jest," -Ruckert

<sup>&</sup>quot;The man who cannot jest is a poor wight at best,

#### The Wisdom of the "Old Reliable."

In the American Bee Journal for September 27th, last, appears an edi-"Feeding Glucose to torial headed Bees" from which we quote the follow-

'Mr. Ernest W. Reid, on page 701, in getting bees to eat glucose. ,I fed some to my bees in July, and they ate cent glucose in comb honey." it all right. I bought the stuff for 1 'Missouri.'

question of honey for market."

will not touch glucose unless it is mixed Fortunately the statement appeared in with more than an equal amount of a somewhat obscure publication. But honey? It should be noted that "Mis- it may be dug up some time and quoted souri" says he "did not feed enough with great gusto as being indisputable for the bees to store any in the supers." evidence that comb honey was really The editor twists this into "As bees do manufactured by machinery, when it not take enough glucose to store it in never has been, and very likely never the supers, etc." Logical, isn't he?

Inspector of Chicago as follows:-"Honey in comb-80 percent glucose, in that editor's estimation is "a some-Glucose is fed to the bees and they put what obscure publication." it in the comb and seal it up." To which same nevertheless was sufficiently in the editor replied: "We at once wrote evidence to be instrumental in smashing to Mr. Murray, the inspector, asking the "League," of which the above him for the authority for the statement quoted editor was a moving spirit. concerning comb honey. Up to this He lets his ill temper run away with

time we have received no reply from him. If his statements regarding other supposed adulterated food articles have no more foundation than the one about comb honey being 80 percent, glucose, he is not to be depended upon at all. If bees can not be induced to use more wants to know if any one has succeeded than enough glucose to keep them alive how foolish it is to talk about 80 per-

From this he switches to the followcent per pound, with which to experi- ing lucid (?) remarks: There are a lot ment. It was during a very dry spell of foolish folks in this world that talk that I fed about 50 pounds. I made a nonsense, just because they know nothsyrup and fed in the open air about 200 ing about the subject on which they yards from the hives. It was at a time attempt to speak. More harm is done when there was nothing to get from by such utterances than can ever be the flowers. The syrup was made by undone. It is much like saying that adding water and heating it until it was comb honey was once manufactured. all dissolved, I did not feed enough for because a little deep-cell comb foundathe bees to store any in the supers. I tion was made. Deep-cell comb foundado not think they would store any of it, tion is not honey at all, although it may for I tried to get them to eat glucose appear to be something like empty at a time when there was nectar in the honey-comb. There is a world of differflowers, but they would not touch it.' ence between honey-comb and comb honey. And yet, recently, when the "As bees do not take enough glucose matter of deep-cell comb foundation to store in the supers for surplus, there was referred to, it was mentioned as if is really no excuse for talking about it were perfect comb honey, made by the matter. If they will eat only enough machinery. And while the thing was to keep them alive, the feeding of exceedingly misleading, the worst of it glucose has no bearing at all on the all was that it was written by a small bee-keeper who imagined he was doing How about the assertions that bees a great thing in the interest of truth! will be so produced. Comb honey is the Further on he quotes the Chief Food product of bees only." That is really funny. So the AMERICAN BEE-KEEPER

his logic, as note: "Deep-cell comb of the National openly championed such honey-comb." convincing.

was that it was written by a small bee- the National Association is in jeopardy. keeper who imagined he was doing a throw stones.

full depth cells is "comb" not deep tion's officers. foundation.

are a lot of foolish folks in this world Association will come to a speedy end. that talk nonsense, just because they they attempt to speak." (M.)

#### Our National Organizations.

San Antonio, Tex., Nov. 8th to 10th, for specific purposes. Certain officers producers.

foundation is not honey at all, although action, and then later, together with it may appear to be something like other persons, hurriedly and secretly Brilliant that and so organized the Honey Producers League, giving an excuse for their action which "There is a world of difference be- was more blackening than silence would tween honey-comb and comb honey." have been. This duplicity of some of Wonderful discovery! "And yet, re- the officers was the last straw, and recently, when the matter of deep-cell sulted in the associated societies of the comb foundation was referred to, it was State of New York withdrawing in a mentioned as if it were perfect comb body. Other states' societies rapidly honey, made by machinery." A gen- followed, and societies not affiliated tlemanly prevarication. It was perfect with the National voted to stay out. artificial honey-comb with full depth As dues became payable members failed cell. "And while the thing was exceed- to renew, and this defection has spread ingly misleading, the worst of it all all over the country until the life of

Some of the officials of the National great thing in the interest of truth." and their friends state that such action Why was it "the worst of it" to have by the bee-keepers was an attempt to a "small bee-keeper" write of it? Be wreck the Association. On the contrary it noted that the editor of the American it was only after trying all other ways Bee Journal is not a bee-keeper at all. possible to purge it that they decided Little boys in glass houses should not that the only thing for the real honey producers to do was withdraw and later Foundation is the base of a building form a body of their own. This predicanot the whole structure, and sheets of ment of the National has been brought foundation built out by the bees to full about by its officers, and for them now depth we call "comb" even though to try to cast the burden on the long the cells are unoccupied and uncapped, suffering producers is but to add insult and even though they have an artificial to injury and make the beemen more base, consequently artificial comb of bitter than ever against the Associa-

The dissatisfaction with the present We would call the Journal editor's conditions is so intense that either a attention to this paragraph of his, and radical change must be made both in suggest that he ponder thereon: "There the constitution and the officials or the

It would be a great misfortune to know nothing about the subject on which have the "National" collapse for it would take years for a new body to reach its size and prestige, dimmed though the latter now is. Every mem-The annual meeting of the National ber who cares for the good of the honey Bee-Keepers' Association, to beheld at producing industry should use his utmost endeavor to save the National if promises to mark a crisis in the society's the present officials will permit it to be affairs. The growing unrest culminated saved. If regeneration is impossible, at St. Louis in the attempt to form then let all good men help to establish within the society a co-operative body a new society exclusively for honey

Some of the officials against whom much of the feeling of distrust and resentment has been directed and whose terms are now expiring, have expressed an intent of declining to serve again as officers. This will materially help matters, but there still remain allies and associates of these persons who have neither declined renomination or expressed an inclination of retiring from office. Also some of the retiring officials have very unwisely attempted to nominate their successors. Rightly or wrongly there is a widespread distrust of many of the men now in office, and only extensive changes will satisfy the members. One official of the National who was associated with the founders of the "League" has since its death done all in his power to rectify his mistake and save the National. He has felt deeply the loss in its membership construing it as personal censure of his act in joining the "League" movement while still an officer of the National. That man is Gen'l Manager France. If our information is correct, there is a widespread feeling that if the National is thoroughly reorganized he should again be made General Manager.

To save the National all of the present officials who were mixed up in the League affairs (excepting Mr. France) must step down and out, and the constitution should be so amended that no supply manufacturer, dealer, editor, publisher, or their agents or employes even down to the staff correspondents and "department editors" shall be eligible to office, and further if any officer is found guilty of conniving with any such persons that office shall at once become vacant.

Much care will be needed in selecting new officials, for there are among the active movers for reorganization some men who are looking out solely for their own financial benefit, and at least one of these men is not even a bee-keeper. Wise heads and plain speaking are needed in the present crisis. (M.)

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### John W. Pharr, Prop.,

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#### HONEY AND BEESWAX MARKET.

Cincinnati, Sept. 18.—The demand for comb honey is good; fancy and No. 1 selling freely at 15c and 16c. Lower grades not wanted at any price. The market on extracted honey is quiet, as quantities remain unsold, from last season. Quote amber at 5½ to 7c according toquality. Fancy extracted white clover at 7½c to 8c. We are paying 29c and 30c for choice, yellow bees wax, free from dirt.

The Fred W. Muth Co.

51 Walnut St.

Worcester, Oct. 12.— Honey market is firm; fancy, white comb honey selling at 16cts., No. 1 at 16cts., No. 2 at 14 cts. There is not a very large demand but the trade is increasing and we are looking for a very good season with a steady market.

W. H. Blodget Co.

Kansas City, Sept. 12.—The supply of honey is light. The demand is good. We quote our market to-day as follows; Comb. fancy white, per case 24 sections, \$3.00. extracted, 5½ to 6½c. Beeswax 25c. We look for a steady demand right along.

C. C. Clemons Co.

Buffalo, Sept. 10.—The supply of honey is very light and prespects for a poor crop hereabout and we look for excellent prices. Selling now fancy 16 and lower grades 10 to 14c. Think it will be easy to please this season. Write us if interested in Buffalo. Soon as fruit is over we look for a big and sharp trade at satisfactory prices.

Batterson & Co,

Chicago, Sept. 8. –The receipts of comb honey are quite large, and there is also a good cemand for it, so that prices are well maintained at 15c and 16c per lb. for No. 1 to fancy: anything short of these grades is not selling freely and ranges from 1c to 3c per lb. less; buckwheat 12½, dark grades 8c and 10c. Extracted white 6½c and 7½c, amber 6 and 7c, dark 5½ and 6c. Beeswax 30c per pound.

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Fruit Growers' Ass'n, Grand Junction. Robert Halley, Montrose. IOWA—Adam A. Clark. LeMars. Louis Hansen's Sons, Davenport. W. J. McCarty, Emmetsburg.

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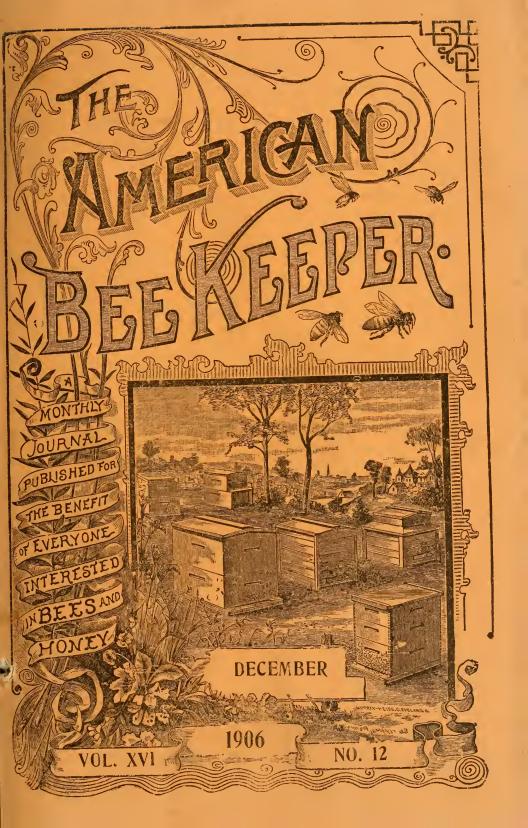
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Vol. XVI

DECEMBER 1906.

No. 12

#### CALCIUM CHLORIDE IN THE BEE CELLAR.

#### Details of an Interesting Experiment, Worthy of Thorough Investigation.

ALLEN LATHAM.

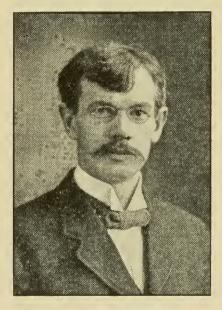
HOUGH plenty of cases are on move, nor has he opportunity to build ly damp, there can be no doubt that then choose the ventilation method. bees as a rule winter successfully only To keep a cellar dry by ventilation

record of bees wintering well a bee-repository at a greater or less in cellars which were apparent- distance from his house. He must

in dry cellars. Personally I question is extravagant of heat in any case. If whether bees have ever wintered well the cellar is without furnace or steam in a really damp cellar; that is, a heater, to ventilate the cellar means a cellar in which the air was humid, chilling of the bees, which is more than Many a cellar, has a wet floor but likely to result disastrously. To warm still is comparatively a dry cellar, the up the air in a room separated from the circulation being sufficient to keep cellar and then introduce the warmed the air dry, but not sufficient to dry fresh air is alike attended with disout the springy soil of the cellar bot- aster, as it tends to excite the bees. tom. A dry atmosphere in the bee- For these and other reasons I hold cellar is almost a certain guarantee that it is difficult to ventilate a damp that the bees will winter successful- cellar sufficiently by ordinary means.

I would make one exception to the A dry atmosphere being the great statement in the preceding paragraph. desideratum it is worth our while A cellar which has a furnace or steamto go to some pains to get that con- heater in it is most excellently vendition in our bee-cellars. The usual tilated, even though all windows are devices are a dry location with good closed and no efforts made to ventidrainage, or a cellar with excellent late at all. Allow me to explain. ventilation. Now it is not at all pos- Assume that this heater or furnace sible for many a bee-keeper to get a consumes six tons of coal during the dry location, for his house is where winter. To do this means the conit is and he is not in position to sumption of fifteen or more tons of

of air at least. All of this air enters surance of success. the fire-box and goes up the chim-



MR. ALLEN LATHAM.

ventilation. I hold, therefore, that than in that with it, and all these in a cellar with a furnace or steam-heat- the short space of one month. Aner in it, if said heater is so made that other thing noted was that the hive it does not lose much heat and gas without the chloride had brood in into the cellar, is an ideal cellar for all stages, while the other was without the wintering of bees.

But suppose that a man has neither breeding. a dry cellar, nor one in which there

oxygen, and as oxygen is only a fifth spring I tried an experiment which part of the air, this means a con- convinced me that cellar-wintering of sumption of seventy-five or eighty tons bees can be done with perfect as-

I took two baby nuclei which had ney. It must before entering the fire- already got into rather poor condition box enter the cellar. Thus we see and fitted up for each an apartment that a cellar in which a furnace stands in my cellar which I could keep in will have eighty tons of fresh air a very damp condition. I even used drawn into it anyway. Being dry win- the garden sprinkling pot about these ter air, and sifting gradually into the hives to keep them in an atmosphere cellar, it is quickly tempered by the reeking with moisture. One of the warmth of the cellar, and the bees are little colonies was left to its fate; not so the other. Above this latter one and below it, separated by wire cloth, were placed pans containing fused calcium chloride. This chemical was placed in lumps on wire netting above the pans so that the air could freely reach it. Being an extremely deliquescent salt the chloride tended to dry the atmosphere about the second colony.

The two colonies were kept thus for a month and then notes were taken. The colony without the chloride had badly spotted its hive and many bees lying about dead, with greatly distended bodies. But few dead bees were about the other hive, and many of these were wizened and small like normally dead bees. I have unfortunately mislaid my notes, and cannot give the exact number of dead bees found inside and outside of each hive. I counted carefully in each case, and remember that the ratio was 4 to I. Four times as many bees had not at all disturbed by this sort of died in the hive without the chloride brood. A dry cellar discourages

This little experiment, is furnace or heater. Is there any founded upon good sound reasoning, hope for his bees except out-door and though pointing clearly to greatwintering? There assuredly is. Last ly desired results, must not be given my suggesting an experiment upon a the pans replaced in the cellar. The larger scale which might be tried salt can be used again and again, rethis coming winter.

Let some one who has a rather bring it back to its original state. damp cellar, and whose bees generally There can be no doubt that a celcome out in spring weak and then lar can be kept very dry in this way, galvanized netting, six mesh or so keeps accumulating in their bodies. to the inch, to furnish a piece to rest I winter my bees out doors with the

If the cellar is very damp the salt may get all dissolved in a few weeks. In this case the pans must one by one be set in the stove-oven for an hour or so till the water is driven out, the

below the hives.

too much weight. Yet it warrants salt again placed on the nettings and quiring only a moderate baking to

grow weaker by spring dwindling, and need have almost no ventilation, act as follows: Let him purchase Bees need very little air indeed if about a hundred pounds of crude cal- that air be dry air. Their need of fresh cium chloride, not chloride of lime so- air is like our need of fresh air, that called, but the real calcium chloride, is plenty of oxygen. They need fresh fused. Let him purchase a dozen or air mainly that its drying power may so of galvanized pans, and enough help them to get rid of the water which

over the pan. Let him put a pound or exceptions of my baby nuclei, or I so of the salt on each piece of netting should most assuredly try the calcium and then place the pans with the net- chloride on a large scale. I trust that ting and salt here and there in the it may be tried the coming winter, and cellar, some above the hives, but many that full reports may be given of the results.

Norwich, Conn.

Fused calcium chloride costs, in 10-lb. cans, 15c per pound, and in 100-lb. lots, 10c per pound.—A. C. M.

#### HANDLING HONEY.

#### Instructions and Suggestions for the Inexperienced.

W. R. GILBERT.

clear, bright color of the contained sale for his produce. honey, evenly and delicately worked out to the sides and bottom of the section, and with a scrupulously clean surface. The finest liquid, extracted In regard to comb-honey, the prep-

▼ HE CONSUMER has at length flavor. There are many grades of arrived at a very good idea of medium and dark colored honey, below what to require in a first-class this first-class standard, but the latter honey. Comb-honey (in section cases) is what the bee-keeper must strive to should be translucent, showing the attain, in order to command a ready

#### Preparation for Comb-Honey in Sections.

honey, should be bright and clear, of aration commences with the filling of a light straw-color, and delicate in the wax foundation in the section boxflavor and aroma. Granulated extract- es. To secure a well worked out ed honey should be of fine, even grain, section, this should be cut so as to creamy-white in color, and of good just clear the sides of the box, and

hang to within one-sixteenth of an bee-keeper, and without disturbance to inch of the bottom, thus allowing for the apiary. a light stretching of the foundation, caused by the heat of the bees cluster- to a bee-proof room, the wedges, and ing on its surface. The fitted boxes back board removed, and the center must next be placed in the section section of the exposed row taken out. super, with separators between the Do not attempt to lift it straight out, will place propolis over every crack two side ones. Sort the sections as or small space, causing disfigurement they are taken out, putting all well and extra work in cleaning; also sec- filled, clear ones, as the first grade. tions "out of square" are much more Those not well worked to bottom and will then be filled with good, straight, must be emptied by the extractor. and even combs.

Removing filled supers from the hives should be done with as little disturbance to the bees as possible. The best method is to place a "super-clearer" on a stool or box by the side of the hive, raise up the bottom edge of the super, and insert a small wedge; puff a little smoke between the super and top of the frames; then remove the super steadily with a screwing motion, clearer;" then place a cloth, on which preparation is needed. To pack them a few drops of carbolic acid have been so as to travel safely, not more than been driven down, leaving the tops box, bore two holes in each end, about can be removed with comfort to the and the sections. This space must be

The full supers should be carried inrows, reaching to within three-eighths the result would probably be a damagof an inch of the top and bottom, ed section, but tilt it backward on its and wedged up perfectly square and bottom edge, and when loosened it tight. This is important, for the bees will come away easily, as also will the liable to breakage, when packed for sides, and, therefore, not fit for shiptraveling, owing to the unavoidable ping, make a second grade, and any spaces between them. The rack must only partially filled must be given back be placed perfectly level on a hive to the bees to finish, unless the honey containing a strong colony of bees; it flow has ceased; and in that event they

> Carefully scrape all propolis from the edges of the sections, and, if not already sold, store them in a dry, warm cupboard, protecting them from dust by tying in packages of four to six in clean paper; be very careful not 'to place anything having a strong odor near the honey, or it will spoil the flavor.

#### Packing.

If the sections are sold to wholesale and put it down gently on the "super- dealers for re-sale to traders, no further sprinkled over the top of the frames, from four to six dozen should be put In about ten seconds remove the cloth, into one package, preferably the smaland it will be found that the bees have ler quantity. Procure a strong wooden clear. Now immediately take up the one-third down, and knot firmly into super with the "clearer" and place them rope handles, by which the box them on the frames. If this operation can be safely and easily lifted; put into is carried out in the afternoon, by next the bottom of the box a bed of course morning every bee will have found its hay and on this, place, quite close toway down to the body of the hive, gether, a layer of the "wrapped" packthrough the bee escape, in the center ages of sections, leaving at least two of the "super-clearer," and 'the rack inches between the sides of the box, then fill up tightly with hay, and screw will by the bee-keeper. comb being then preserved from injury Fermentation is the great enemy of in shops.

#### Glazing the Sections.

For glazing sections, glass cut to the by the glass and the wood, serve to better ones. fix the glass on. Waste glass can be Uncap and extract the contents of cut to the size required, while neatly the best combs, and then strain the printed bands of colored paper can be honey through a bag made of cheeseused instead of the lace edging. They cloth, in order to remove all loose are more easily pasted on than the particles of wax. Tin strainers, with paper lace edging, and make much strainer, and honey tap, made to confirmer and neater work, while they al- tain 56 lbs., are made, in which, if the so give an opportunity of placing the honey is allowed to stand for twentynames of the apiary, and retailer on four hours after straining, it will be each section. Neat cardboard cases, freed from air bubbles, and can then be plain or glazed on one or both sides, drawn into whatever bottle, jar, or 'tin, and glazed tin boxes, are provided by will best suit the market. Best honey supply dealers, for those who have is usually put in one pound or onebut a small number of sections. half pound glass jars, with metal screw Where large quantities are handled, the lids having a cork wad inside the lid. printed band holding on the two To prevent any leakage, the cork wad squares of glass will be found the best, should be dipped in melted wax, and and most economical.

#### "Extracting" Honey.

filled with hav, tightly pressed in, and, abandonment of the skep system of to prevent possible damage to the bee-keeping with its waste of bee life, comb, the ends of the packages, may waste of comb, and taint of sulphur; be protected by straw-board or thin it also necessitates the adoption of the wood. Continue with layers of pack- frame hive, which enables the gathered ages, filling in around the sides as be- surplus, to be stored in frames, apart fore, until within two inches of the top, from the brood nest, and removable at

on the lid. Label the package careful- Honey improves in flavor and in ly "Comb Honey, With Care!" Re- density while ripening in the hive, tailers of comb-honey prefer to have therefore the frames should not be rethe sections sent to them glazed, the moved until they are well sealed over.

by careless handling, and, what is still extracted honey, but it can only affect more important, kept free from the badly ripened honey, or honey exposed dusty impurities unavoidably present to moisture and warm'th; so, should it be necessary to extract unripe honey, it should be returned to the bees for re-storing and ripening."

The full sealed frames of comb, havcorrect size may be purchased of any ing been carried into the store-room, dealer in bee appliances, together with should be sorted by holding up to the the strips of paper for edging, which, light, and all those containing dark or when packed round the angle formed second quality honey separted from the

> placed on the jar while still warm, the lid being serewed down upon it.

The darker honey is more suitable The modern method of obtaining ex- for marketing in its granulated state. tracted, or liquid honey, has greatly When extracted and strained it should improved its quality, and the use of be run into 14 pound or 28 pound tins, the centrifugal extractor, compels the the contents of these being stirred

ing. The stirring tends to produce a their bees. So well established did more even and finer grained honey. It they become that they menaced the may also be run into wide mouthed Indians. They became an important glass or earthenware jars, covered down with parchment paper, and stor- country. Then in the 19th century ed in a dry place.

Dark and coarse flavored varieties may be sold for manufacturing and confectionery uses, or for the making of mead.

Medicine Hat, Alberta, Canada.

#### AN INTERESTING MEETING.

Report of the First of the Series of Winter Meetings of the Worcester County, Mass., Bee-Keepers' Association.

BURTON N. GATES.

**▼**HE NOVEMBER MEETING was called to order Saturday ticultural Hall. A good number of harvest.

keeper. From this point of view, Mr. house. Orpet selected his subject, the "Bene- As an insecticide for the bee-moth Bees to the Horticulturist."

gently, now and again, while granulat- came to this country, they brought factor in the fruit industry of the there came a decline in agriculture. It has had its direct results upon fruit culture today.

> A few years ago Mr. Orpet revived the custom of the old country, getting some bees for the Thaver estate. Since he said he had never seen such results in his fruit. "I never had such crops, especially of small fruits, as raspberries, currants, and gooseberries; for the good of the shrubs the crops are too heavy. I have to thin. The results of the few colonies of bees are perfectly remarkable.

> Every estate should have at least, five swarms of bees and not more than ten, is Mr. Orpet's estimate.

Bees may be an injury to some of afternoon, November 10, in Hor- the products of the estate, but this is of no account compared with the good bee-keepers were present, consider- they do. If the gardener is raising ing the quality of the day for fall snapdragon, lilies, violets, mignonette, and the like, he must have a care that The speaker of the day was Mr. the bees do not fertilize the blooms Edward O. Orpet, Gardener for Eu- and thereby cause them to drop. The gene V. R. Thayer of South Lancas- value of snapdragon spikes have been ter, Mass. Mr. Orpet is one of Mass- reduced from \$1.50 to 50 cents a doz. achusetts' most capable horticulturists in the course of a few days by the enand as all gardeners should be, a bee- trance of some bees into his green-

fits, Importance, and Relations of Mr. Orpet reports good results with cyanide of potassium (K Cn.) as In opening his subject, the speaker used by horticulturists in the greendescribed some of the wonderful old house. The proportions for 1000 cugardens of Europe, with their mas- bic feet of space, are I oz. K Cn., 4 sive walls in which are niches and oz. H 2 So. 4 and water. Use a large iron shelves commonly supposed to be for or other receptacle for the sulphuric statuary and ornaments. One of the acid and water. Into this toss the chief and original purposes however, cyanide, previously wrapped in a piece was the shelving of bees for the gen- of paper. The speaker fumigates eral betterment of the garden crops, whole rooms with this hydro-cyanic This was the condition previous to gas. Remember that it is deadly poithe discovery of America. When people son. One whiff is sufficient to inis recommended for the honey-house I have been able to work without or store room. (See foot note).

The next meeting of the society over New England.

Worcester, Mass.

Altogether too dangerous for common use. The average bee-keeper had better stick to fumigation with sulphur. -Editors

#### FROM TEXAS.

#### A Lady Apiarist Winning Deserved Success.

MRS. A. E. ST. LEGER.

Y THIS TIME, I suspect, many colonies have gone into winter quarters in the north, while here the bees are working, carrying in big loads of pollen, filling the combs with honey and humming as if it was spring.

Two weeks ago, while standing under an elm tree, I thought there must be a swarm on an upper limb, but there were bees about all the elms, and I discovered that they were in bloom. The prairie is bright with flowers, and my bees have given me more honey than ever before-such beautiful amber-colored honey. nicely capped.

Many times I feared my pets would have to be given up as my husband (who is in poor health and for whose benefit we moved to the country, he giving up his practice as physician) would get so nervous every time I went near the hives; but little by method is to buy bees in a well eslittle, he overcame his fear, when he found I did not get stung; and this are worth 2 pounds and upward. Col-

jure for life the lungs. The method deal. I was delighted, for this year him begging me to "come away."

The article "Bees on a Poultry will be on Saturday, December 8th, Farm," in the August number was 1906 at 2:30 sharp. In January or very interesting to us, as we have February next there will be an all lately started to raise white Plymoth day convention or institute, when we Rocks; but I found out this spring, hope to have a gathering from all that it would not do to raise chicks at that time, as here the bees swarm The first, this year issued March 24, and the last, April 25, I had thirteen colonies and increased to twenty-four.

> I hope some time to visit a large apiary. Several of my neighbors keep a few bees. In fact, two of them gave me my start, but mine were the first frame-hives I ever saw. My textbook and The American Bee-Keeper my teachers.

> I wonder if any of the bee-keepers have tried the rice bobinet for veils. It is so much stiffer than other kinds. and stays stiff. After making the veil with an elastic band for the hat, and one in the lower hem. I stitch about 6 inches of broad elastic on the latter, at the back. Opposite the underarm, it has a loop at the end, of tape. After drawing the broad elastic forward the loop is slipped over a button stitched on the front lower hem. It is so easy to fix, and the veil is held in place.

Wooster, Texas, Oct. 18, 1906.

#### Buying and Cost of Bees.

Notes of Victoria Apiculture, from articles of R. Beuhne in Journal of the Department of Agriculture of Victoria. (1906)

BURTON N. GATES.

EES BOUGHT by the pound, which there is satisfactory, cost 2-6 per pound. A better tablished colony in modern hive. They spring he was so interested in them onies may be built up from threehimself, that he helped me a great frame nuclei which may be had for

Victoria are evidently good.

be fewer than at one time, and "were much more profitable when kept in box hives, than today." He gives two reasons, which may account for this seemingly startling statement. In those days "disease did not visit them, and the natural flora, from which bees gather nectar, was much more plentiful than today." The prevalence of disease is the bee-keeper's fault. resulting from his ignorance and consequent neglect. He left diseased combs about the yard for bees to rob, thus spreading disease. (Only too true in America.)

Mr. Beuhne is in favor of our American views, that bees are very susceptable to odors. They detect the faintest personal odors. He savs "odors of some persons, animals, and things are more objectionable to bees than that of others. Among odors which are most objectionable to bees are kerosene, camphor, eucalyptus oil, toilet perfumes, ants, raw meats and so on. None of these should be handled by anyone working with bees. Washing your hands ever so much will not entirely remove the odor." Worcester, Mass.

#### The Rheumatism Cure.

ROBERT JONES BURDETTE.

ing that the sting of a bee was a sure in the generally accepted vernacular, cure for rheumatism, and citing sever- bumblebees. Mr. Middlerib did not al remarkable incidents in which people tell his son what he wanted those bees had been pefectly cured by the abrupt for, and the boy went off on his misremedy. Mr. Middlerib thought of the sion so full of astonishment that his rheumatic twinges which had grappled head almost whirled. Evening brings had made life a burden.

and pondered over it. He understood ably populated with hot, ill-natured

from 10-6, up. The prices of bees in that the stinging must be done scientifically and thoroughly. The bee, as The author also considers bees to he understood the article, was to be gripped by the ears and set down upon the rheumatic joint and held there until it had stung itself stingless. He had some misgivings about the matter. He knew that it would hurt. He hardly thought it could hurt any worse than the rheumatism, and it had been so many years since he was stung by a bee that he almost forgot what it felt like. He had, however, a general feeling that it would hurt some. But desperate diseases need desperate remedis, and Mr. Middlerib was willing to undergo any amount of suffering if it would cure his rheumatism.

He contracted with Master Middlerib for a limited supply of bees; humming and buzzing about in the summer air Mr. Middlerib did not know how to get them. He felt, however, that he could safely depend upon the instincts and methods of boyhood. He knew that if there was any way in heaven whereby the shyest bee that ever lifted a two hundred pound man off the clover, could be induced to enter a wide-mouthed glass bottle, his son knew the way.

For the small sum of one dime, Master Middlerib agreed to procure several, to-wit: Six bees, sex or age not specified; but as Mr. Middlerib was left in the uncertainty as to the NE DAY, not a great while ago, race, it was made obligatory upon the Mr. Middlerib read in his fa- contractor to have three of them vorite paper a paragraph stat- honey, and three of them humble, or, his knees once in a while and, which all home; the last rays of the setting sun set upon Master Middlerib with He read the article several times, a short wide-mouthed bottle comfortThe dime and the bottle changed up-" house, eveing everybody he met very execrable grammar: suspiciously, as though he had made "Hush up! You don't smell noup his mind to sting to death the first thing." room, and as he looked at them just said:

bees, and Mr. Middlerib, and a dime. "I smell bees. How the odor brings

hands. Mr. Middlerib put the bottle in But her father glared at her and his coat pocket and went into the said with superfluous harshness and

person who said "bee" to him. He Whereupon Mrs. Middlerib asked confided his guilty secret to none of his him if he had eaten anything that disfamily. He hid the bees in his bed- agreed with him, and Miss Middlerib



THE ASSOCIATE EDITOR. MR. ARTHUR C. MILLER, IN HIS RUMFORD APIARY.

before putting them away, he half wish- "Why, pa!" and Master Middlerib ed that the experiment was safely over. smiled as he wondered. He wished that the imprisoned bees Bedtime at last; the night was warm did not look so hot and cross. With and sultry. Under various false preexquisite care, he submerged the bot- tenses, Mr. Middlerib strolled about tle in a basin of water and let a few the house until everyone else was in drops in on the heated inmates, to bed; then he sought his room. He cool them off.

At the tea-table he had a great ray shone dimly as a death-light. fright. Miss Middlerib, in the artless Mr. Middlerib disrobed slowly-very

turned the lamp down until its feeble

simplicity of her romantic nature, said: slowly. When, at last, he was ready

to go lumbering into his peaceful hold of the first bee, Mr. Middlerib, bottle of bees.

half an ounce if you picked him up by wife. his ears. But, if you lifted him by the "Murder!" she screamed. "Murder! hind leg, would weigh as much as the Oh! Help me, Help, Help!" last end of a bay mule. Mr. Middlerib Mr. Middlerib sat bolt upright in could not repress a groan.

sleepily asked his wife.

It was very hard for Mr. Middlerib "Where in thunder," he said, with to say that he only felt hot, but he did pallid lips, as he felt over the bed in it. He didn't have to lie about it, frenzied haste, "where in thunder are either. He did feel very hot indeed- them infernal bees?" about eighty-six all over, and one hun- And a large "Bumble" bee, with a dred, ninety-seven on the end of his sting as pitiless as the finger of scorn, against the rheumatic knee.

it would; it did not hurt at all.

Then Mr. Middlerib remembered "Here is one of them." that when the honey bee stabs a human foe it generally leaves its harpoon in feeble scream, when Mr. Middlerib the wound, and the invalid then real- threw up both his arms and with a ized that the only thing that this bee howl that made the windows rattle, had to sting with was doing its work roared: at the end of his thumb.

He reached his arm out of bed and somebody take him off!" dropped this disabled atom of rheuma- And when a little honey-bee began after a second of blank wonder, he be- foot, she so shrieked, that the house wished he knew what he did with it. into spasms.

In the mean time, strange things The household was aroused by this

couch, he heaved a profound sigh, so for reasons, drew it out with such full of apprehension and grief that Mrs. haste that for a time he forgot all about Middlerib, who was awakened by it, the bottle and the remedial contents, said that if it gave him so much pain and left it lying uncorked in the bed to come to bed perhaps he had better between himself and his innocent wife. sit up all night. Mr. Middlerib choked In the darkness there had been a quiet another sigh, but said nothing and but general emigration from the bottle. crept into bed. After lying still a few The bees, their wings clogged with the minutes he reached out and got his water Mr. Middlerib had poured upon them to cool and to tranquilize them, It was not an easy thing to do with were crawling aimlessly about over the his fingers, to pick one bee out of a sheet. While Mr. Middlerib was feelbottleful and not get into trouble. The ing about for the bottle, his ears were first bee Mr. Middlerib got was a little suddenly thrilled and his heart frozen brown honey-bee, that wouldn't weigh by a wild, piercing scream from his

bed. His hair stood on end. The "What's the matter with you?" night was warm; but it turned to ice in a minute.

thumb. He reversed the bee and plac- just then climbed up the inside of Mr. ed the warlike terminus of it firmly Middlerib's nightshirt until it got squarely between his shoulders; then It did not hurt so bad as he thought it felt for his marrow and he said calmly:

Mrs. Middlerib felt ashamed of her

"Take him off! Oh, land of Scott,

tism linament on the carpet. Then tickling the sole of Mrs. Middlerib's gan to feel around for the bottle, and was bewitched, and immediately went

had been going on. When he caught time. Miss Middlerib and Master Mid-

dlerib and the servants were pouring Arrangements have been made with into the room, adding to the general the restaurant in the basement to serve confusion by howling at intervals and good meals at very reasonable rates. asking irrelevant questions, while they The Revere House will lodge beegazed at the figure of a man a little keepers at their usual rates. This hoon in years, arrayed in a long night- tel is at the corner of North Clark shirt, pawing fiercely at the unattain- and Michigan Streets. able spot in the middle of his back, Dr. C. C. Miller writes: "I don't while he danced an unnatural, wierd, know how much I can do toward makwicked-looking dance by the dim, re- ing or marring the convention, but, ligious light of the night-lamp. And Providence permitting, I'll be there." while he danced and howled, and while they gazed and shouted, a navy-blue know now, I can come." wasp, which Master Middlerib had put into the bottle for good measure and attend your convention if possible." variety, and to keep the menagerie Let us have a full attendance of all stirred up, had dried its legs and wings the bee-people (ladies and gentlemen) with a corner of the sheet, and after a within reach of Chicago. Come and settle down to working, he fired across time at the bee-keepers' convention. the room; to his dying day, Mr. Mid- The meetings will be as follows: and shot him.

could doubt that he was, at least for the time, most thoroughly cured of rheumatism. His own boy could not biggest and best bee-keepers' convenhave carried himself more lightly and tion ever held in Chicago. Reduced with greater agility. But the cure rates on all the railroads. was not permanent and Mr. Middlerib does not like to talk about it.-New York Weekly.

#### Chicago-Northwestern Convention.

The Executive Committee of the Chicago-Northwestern Bee-Keepers' Association take great pleasure in making the following announcement:

Through the kindness of friends it is possible to hold the next convention Prejudice?" of our Association in the fine hall known as "Brunt Hall." in the Bush al Association met last December. Bee Bulletin, for September.

N. E. France says: "So far as I

C. P. Dadant writes: "I promise to

preliminary circle or two around the see the great International Live Stock bed in order to get up his motion and Exposition, and spend part of your

dlerib will always believe that one of Wednesday, Dec. 5, 10 a. m. to 12 m.; the servants mistook him for a burglar 2 p. m. to 5:30 p. m.; and 7 p. m. to 9:30 p. m. Thursday, Dec. 6, 9 a. m. No one, not Mr. Middlerib himself, to 12 m.; and 2 p. m. to 4 p. m.

Question-Box All The Time.

Everybody come and make this the

George W. York, Pres. Mrs. N. L. Stow, Vice-Pres. Herman F. Moore, Sec. Executive Committee.

"The community has no bribe that will tempt a wise man."

"Do we call this the land of the free? What is it to be free from King George, and continue slaves to King

"In the district of Chicago, U. S. A., Temple of Music, corner of Chicago there was such a mild winter just pas-Avenue and Clark Street, Chicago, sed, that a very good crop of clover This is the same hall where the Nation-honey was anticipated."—Australian

#### BENTON IN INDIA. MR.

#### Horrible Experiences of Our Government Apiarist in the Far East.

snap. Such as are inclined to en- remains long in these jungles. tertain any such view will do well to read the following which I take from if he tries to work at all-he would, a letter written by him to a friend of even without working. In the plains mine, under date, May 20, 1906, at of the Punjab, where I have been the Simla, Himalaya Mt's. India:

I was terribly bitten by mosquitoes, not below 108 degrees for days, and and being quite exhausted from over- 130 degrees to 170 degrees in the sun. exertion while getting the giant bees The wind blows hot and dry as though in the jungles, I found the fever taking it came from a fiery furnace, carrying hold of me. By increasing the doses with it great blinding and dense clouds of quinine, which I had been taking, the of dust. For hours, day after day, fever seems to have been checked, but this takes place. Rarely during April, I imagine the malaria is working out May and June a shower comes, and the in the form of boils. I have half a heat turns one into steam as soon as dozen or so continually, and now one it has fallen. The sun burns his fiery big carbuncle on my neck.

if he stays down in the plains during and even months. Everything shrivels the hot and dry season, he always and withers; the birds pant for breath

led malaria.'

barrier that exists to the development of European life in the country. It becomes a subject of paramount interest to all students of Indian physiography.

"Not all the well-known precautions with which all the travelers in the wilds of India are acquainted will avail

T HAS BEEN insinuated by certain against the thorough saturation of
people that Mr. Benton has a soft his system with made acquainted will avail

"Then, too, one gets so worn out, temperature ranges from 90 degrees F. "Down in the plains of the Punjab, to 120 degrees F., in the shade, often path through a cloudless sky from "An English captain tells me that morning until night for days, weeks, has fever, or is covered with boils. and seek shelter, even coming into "Sir Tho, H. Holdich, late deputy houses when not shut out; cattle and superintendent of East India survey, stock collect under the banyan and says, in a recent authoritative work pipal trees which resist the dry weather of India, when treating of its climate best. Water for irrigation is not and the danger of disease: 'Neither abundant in the northwest, and where plains nor hills, jungles or deserts, are it is withheld every blade of grass altogether free from that slow, but withers and soon becomes brown. most pernicious influence which is cal- Bare earth and rock are the prominent features of the landscape. Insects "The geographical distribution of the abound. Snakes creep in the waste worst forms of that pernicious poison, places, and wild animals roam more (or of the particular species of mos- freely than when men dare venture out quito which distributes it) is worth against them. Twenty thousand people attention. There are many forms of die annually in India from snake bites; the malady known as Indian fever; tigers kill over two thousand. These and inasmuch as it claims more victims are the pleasures of India! and is in a year than all other diseases put what I fled from into the mountains, together, it is probably the greatest but now that my work up here is largethe fiery furnace.

starting from Calcutta to Singapore last session on Friday evening, the and the Philippines by the time this 19th. This will be in connection with letter reaches you. When I was in the several other agricultural meetings to middle of this letter, we had quite a be held at that time, and there will be perceptible earthquake. One year ago an exhibit of bee products and apiary a violent earthquake in a valley 100 supplies. An excellent program is miles west of here, destroyed villages, being prepared, the details of which etc., and 20,000 people were also kill- will be announced later. The railroads ed."

#### PENNSYLVANIA STATE CON-VENTION.

#### To Be Held in Harrisburg Next Month.

Editor American Bee-Keeper:

Pennsylvania State Bee-Keepers' Asso- of Pennsylvania Bee-Keepers' Associaciation will hold its third annual meet- tion.

ly finished up. I must soon return to ing in Harrisburg, Jan. 17, 18, and 19, 1907. The first session will be on "If all goes well, I shall likely be Wednesday evening, the 17th, and the will give rates which can be obtained by writing to the secretary, L. R. White, Harrisburg, Pa., or to the president, Prof. H. A. Surface, Harrisburg,

> Thanking you for this, and hoping to have the opportunity to reciprocate favors, I am, Yours very truly,

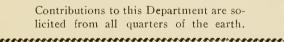
> > H. A. Surface.

Will you please announce that the Economic Zoologist and President

### The Bee-Keeping World



Contributors: F. GREINER, ADRIAN GETAZ



#### Repeated Mating of Queens.

Mr. Ignotus has a long article in the Revue Eclectique, concerning the

presumption that her desires not being satisfied, she would mate again. Another observer, Mr. Pierrard, thinks that sometimes the male organ may repeated mating of queens. A number be extracted from the queen too soon of observations from different sources by the bees. Mr. Pierrard thinks that are quoted showing that often queens in order to allow the hundreds of thoumate two or three times. The causes sands of spermotozoa contained in the of such repeated mating are discussed, male organ to pass into the pouch of Among the quotations there is the queen, a certain length of time is one from Prof. Vogel, who has ex- necessary. His opinion is founded on amined a large number of drones with the observation of a queen coming a microscope and found quite a num- home, and finding a perforated zinc ber impotent. Should a queen mate that he had placed at the entrance. with such a drone, there is a strong The excitement caused by her moveto get in after they come back.

ception. Two cases are quoted of amount of brood during the season. mediate color or at least approxi- Such colonies will excel. mately so.

The opinions quoted are unanimous in saying that the queens are mated only at the beginning of their life and never later.-Le Revue Eclectique.

#### SWITZERLAND.

#### Thinks Blacks the Best.

in a long article (in Bienen Vater) the Switzer bees. He says, they swarm Doolittle method of rearing queens, very little and can be depended upon The doctor concludes that this Ameri- to supersede queens at the right time, can method is illy fitted for rearing usually in the fall. He also gives the good queens with the native bees of different methods he employs in queen-Switzerland. He holds, that no other rearing. As he prefers naturally built bee can "hold a candle" to the native cells he contracts the brood-nest of his black bee, claiming that many hundreds breeding stock and feeds, thus inof years are necessary for a bee to ducing the swarming fever in those adapt itself to resisting conditions in indisposed to swarm. The gleaner of black bee fits well into the peculiar fashion, we might hold the good qualiconditions of Switzerland and what ties our bees already possess.

ments induced the workers to extract has been gained by many years of the organ at once. The next day, the breeding, he says, came very nearly queen mated again. He has seen being lost again by the imprudent imseveral queens mate three times, portations of other races or varieties. His method consists in placing a per- He counts up four different or distinct forated zinc at the entrance of the hive properties as belonging to the "Switafter the time of day that the zer-bee," viz: 1. "Beginning to rear queens go out, (about two o'clock) brood extensively quite late in the seaand then observe them when trying son (not till April). 2. Greatest longevity of bees with giant colonies, and Mr. Kalinski, of Swientani, (Poland) yet but medium amount of brood. 3. is of the opinion that a double fecun- Early discontinuation of brood-reardation is rather the rule than the ex- ing. 4. Proper or most favorable

Italian queens producing both pure According to the doctor's experience Italian and pure black workers as the most profitable colonies are not far as their color show. He thinks those, which have the most prolific that such cases show a double fecun- queens, but those whose queens can dation and that an ordinary mis-mating keep the hives fullest of bees with the would show all the bees of an inter- smallest amount of brood in the combs. which can do such work have to be reared under normal and most favorable conditions. It should not be expected that even the best colonies should bring 15 or 20 such queens to perfection at one time, and to demand of a colony to rear several lots is folly. When a colony rears six or eight good queens that should be the limit-more should not be expected.

At the close of his article Dr. B. Dr. Brunnich, of Zurich, criticizes, enumerates a fifth good quality of the any country, and when they have once this considers this method the best, adapted themselves, as the bee in and omits what the doctor further Switzerland has, cannot easily be out- says on the subject. He also thinks, stripped by new-comers. The native it more queens were reared in this

#### GERMANY.

#### Prices of Stock.

Hives, bees, queens, etc., may be bought in Germany at the following prices:

Double-walled, packed hives for one colony, \$2.26; for two colonies, \$3.93. These hives are ready for use.

All brood and extracting frames are made of material one-fourth by one inch, and such material is largely sold by the foot or meter, a meter being equal to 39,368 inches; one hundred meter of frame material being sold at 42 cents. The bee-keepers to cut it themselves.

Full colonies in light shipping boxes are offered in Neue Bztg. at about \$3.50. Driven swarms, (just the bees) weighing four pounds are offered at \$1.00 in September. Queens, at 60 cents up to 93 cents. Honey extractors may be bought from \$2.30 to \$5.00; a jar similar to the No. 25 jar, at \$2.49 per 100.

#### Good Advice.

Good advice as given by Roth, in When moving bees, Imkerschule: select the night-time, have hammer and nails at hand, keep smoker in readiness, never leave the team hitched to the wagon when loading or unloading bees; attend to this work yourself.

The average returns from apiaries varies as much in different parts of Germany as it does in the United of 10 pounds.

In America, Doolittle obtained in the pounds from 1,690,000 colonies. poor honey season of 1905, over 100 tria-Hungaria

pounds per colony. The gleaner has attained such an "enormous" yield only twice inside of 30 years.

Drones are said to fly further from the hive than workers, by a writer in Rhein. Bztg. He observed when moving a colony two miles, many drones returning to their old stand, but no workers.

Leipz. Bztg. says that the aroma and the color of extracted honey is improved by exposing it to a long continued sun bath. It was also observed that 'the candying process of such honey was deferred by the sun bath, especially when such honey was not sealed.

#### EGYPT.

Apiaries are not numerous in Egypt. Schroeder reports in Ill. Monastsbl, of an apiary which he, after long search, found in the little village, Esbesas. that the twenty-five colonies, which it contained, stood on two high benches. The hives were of cylindrical form. mostly of clay-some made of sticks. They were coated with droppings from the cattle, mixed with sand in such a way that each lot of hives formed one body. The owner of the bees, Halem Harnodi, obtains the honey by opening the hives first at one end, then at the other, smoking back the Yields in Germany and America. bees and cutting out the comb.

#### The Honey Crop of Europe.

According to a statistical report is-States. Some bee-keepers make com- sued in Germany, the honey-production plaints and speak of a poor honey in the different European countries season when their yields are from 15 is as follows: Germany produces anto 20 pounds per colony, others think nually, forty million pounds, and has they had a good season with a yield nearly twenty-one million colonies of bees. Spain produces 38,000,000 produces 36,000,000

pounds of honey, and has about 1,550,-000 colonies. France produces 20,000,- J. Markardt reports in Schleswig 000 pounds. Holland, 5,000,000; Bel- H. Bztg. that his bees worked beaugium, 4,000,000; Greece, with only 30,- tifully on red clover this past season. 000 colonies of bees, produces 2,800,- He says that on account of a change 000 pounds, as against Russia's 1,800,- in 'the atmospheric conditions,

of honey. It is estimated that the could work successfully on the blosvalue of all this honey is equal to a soms. His Carniolan bees stored twice little over ten million dollars.

#### Apis Dorsata.

After reviewing all that is known in regard to Apis dorsata, Herma-Meyer concludes that the big India bee will be of no practical value to the beekeepers of Germany. Even as a means of crossing upon other honey bees, he entertains no hopes whatever, saying they do not cross with species of honeybees found in Northern India, which are closely related to the European bees. "As far as we know," he also says, "the tongue of Apis dorsata is not materially longer than that of the bees we now have, and we will have to find other ways to unlock the sweet treasures hidden in the red clover blossoms. (It would seem that the United States ought to be in a position to tell by this time what the facts are in regard to length of the tongue of Apis dorsata, as well as many other facts connected with 'this bee).

#### Our Advantage.

American bee-keepers are surely at an advantage as compared with those of the fatherland. It is rulable in Germany to feed all new swarms in order that they may fill their hives with comb and store an ample supply for winter. The American bee-keeper plus besides.

#### Worked on Red Clover.

000 pounds, with 110,000 colonies. clover began to yield honey after July Denmark produces 1,800,000 pounds 28, to such an extent that his bees the amount that the blacks did from this source.

#### In Line With Heddon's Pollen Theory.

Editor Freudenstein addressed the bee-keepers at Marburg, on the subject of wintering bees. He gave a sort of history of his wintering method which, in brief, is nothing else but the use of sugar for winter food. From what Mr. F. says, it appears that he has had marvelous success in wintering on sugar. Dysentery is a thing which gives him no trouble. His bees always come out strong in the spring. He removes all the honey if possible, and feeds sugar instead. In one case, having a colony afflicted badly with dysentery, in mid-winter, he brushed the bees off the soiled combs, substituting clean, empty ones; then he fed sugar syrup. The colony became quiet at once, dysentery disappeared, and the bees became healthy and proved a good profitable swarm the following season. Freudenstein says he will pay any one \$250,00 who loses a colony with dysentery if he has prepared it according to his instructions.

#### BRAZIL.

#### Tropical Troubles.

Schenk, former editor of Braz. not only expects the new swarms to Bienenphlege, gave an interesting acfill their hives, but to give a nice sur- count of "Apiculture in Brazil," before the bee-keepers' convention at

bee-keepers expect a good honey flow in place of sugar by the colonists. for ten months of each year. Principal The most common bee-Apis mellia continuous flowering robe for sever- bee and not very vicious. But even with this adal months. vantage, bee-keeping does not ways pay. The season of 1905-1906 was a failure. Grasshoppers destroyed nearly all vegetation and drouth finished it. About 90 per cent of the bees were lost before the drouth was broken. After this, the honey season was excellent for six months. Many inhabitants use soap and kerosene boxes for hives; they make one side movable, which enables the farmers to cut the contents from them.

#### GERMAN-EAST-AFRICA.

#### Novel Hive Stands.

According to a reporter in Phalz Bztg. this country is most favorable for bees and honey production. honey flow is a constant one. The For now upon the sun-forgotten landnatives (negroes) use hollow logs for Rank, seething marsh and crumbling, hives and hang them to the branches of trees. The sight of a fig tree with Dark Winter lays her dread-compelling 50 hives hanging from its limbs is no uncommon sight. Next to harvesting The wild geese huddle homeward; the the honey this putting up the hives includes all the work that is done by The fierce, black brant ride speeding the honey producers, for the stocking up of these hives is automatic. The The pale forest thickens to the bitter contents of the hives is cut out four times during the year.

The German farmers somewhat imitate the ways of the natives. They put out decoy-hives and kerosene boxes, and when these are filled, they add Tommie? another box-upper story-filled with Some use honey extractors frames. to obtain the honey.

sweeter than the honey gathered in cheated, he cheats himself."

Leoben, Austria. He says that the Germany. Then honey is largely used

honey plants are, first, a kind of locust; fica Adansonic-has its own markings, second, the Asondo Caballo, a forest the thorax having a reddish color. tree, very abundant, and clothed with The bee is smaller than the German

#### The Summer's Death Song.

(James E. Richardson in Everybody's Magazine.)

By Old Shamong the sands lie sere and lone

'Twixt cedars and the gray, sand-shallowed sea:

The long day there the lone winds wax and flee.

Sped on through skies that will but mask and moan

The more when they return. . . . Afar and prone

Where all the glittering beaches hold their glee,

They keen one long-drawn tuneless threnody,-

All sounds of grief in one sheer mono-

mournful dune-

hand;

lone loon,

o'er the sand.

moon.

#### How Doth!

(From the Yonkers Statesman.) Teacher-What is it that bees make,

Tommie-Sore spots, ma'am.

"If the laborer gets no more than the The honey is reddish in color, seems wages his employer pays him, he is

#### THE

### American Bee-Keeper

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We do not acknowledge receipt of subscriptions. Your receipt of the journal is evidence of your subscription having been entered. The date printed upon the wrapper label of your paper indicates the time to which you have paid. Our subscribers will confer a favor by observing the date, as noted, and promptly renewing or requesting the paper discontinued at expiration of time paid for, as may be desired.

Some of our Northern dealers still

American Bee-Keeper declines to make use of the word "Southern" in this connection. It is an obvious injustice to every progressive Southern producer; and we are gratified to note that our contemporary journalists are likewise doing some wholesome editing along the same line. (H)

Mr. W. W. McNeal, the affable apiarist and clever scribe of Wheelersburg, Ohio, writes that he had a good time with the bees last summer, secured a fair crop, of exceptionally good quality, and that the bees are abundantly supplied for winter. The fall flow, Mr. McNeal says, was good. Bee-Keeper subscribers will be pleased to learn that Mr. McNeal will be among our occasional contributors for 1907.

(H.)

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Hildreth & Segelken, New York, advise that there is not much demand for extracted buckwheat. ing from the large offerings, they think there has been a heavy crop of this class of honey, the nominal price of which, on the 9th ultimo, was six to six and a half cents. Kansas City reports a good demand for both comb and extracted. Honey moving along slowly, and quality very satisfactory, is the report from Boston.

#### Position of Combs in Extracting.

Mr. F. G. Herman, in the Michigan Farmer, says:

"When the uncapped combs are put into the cages of the extractor they should be so placed that the bottombars go around first, for thus the honey is more easily thrown out, as it leaves the cells in the direction of the pitch given to them by the bees when they are building the combs."

This is another very plausible theory continue to report the market by quot- - "as old as the hills"-which practice ing low grades as "Southern." The fails to substantiate. It was generally decided preference for the method of strips of wood was nailed. slinging the top-bar ahead, in order The colony to be fed had the cover ing is in use. (H)

#### Western The Season in Pennsylvania.

November 12, Mr. W. J. Davis, Youngsville, Pa., reported "some snow," and bees all snugly in winter quarters.

Mr. Davis does not care for more than about 100 colonies, and has reduced his apiary to this number. His crop of honey for 1906 was only about 1,000 pounds, in the comb, mostly of a dark grade.

By the way, Mr. D. reports an unusually heavy trade in queens during the past season, and states that the only advertising he has done, was to keep a card in the Queen-Breeders' Directory of the American Bee-Keeper.

Mr. Davis is in the red raspberry country, and this source of honey supply, as well as of luscious fruit, proved very helpful to the bees last season.

#### Feeding Experiences.

The excellent article by Mr. Getaz, in our November issue calls to mind some personal experiences in late feedprove interesting to others.

advocated twenty-five years ago; but A piece of board six or seven inchcareful tests and close observation es wide, and long enough to go across demonstrated the fact that if a moder- the inside of a hive body, had two ate speed were maintained for a holes bored through it, each hole bereasonable length of time, there was no ing large enough to admit the top of a perceptible difference in results ob- fruit jar, and being so close together tained, regardless of the "pitch" or the that jars stood in them would touch position of the comb in the machine. each other. Across the under surface However, some of the most extensive of these holes wire screen was tacked and practical apiarists, who are "nice" and around the outer edge of the same about their work, have expressed a surface a narrow rim of half inch thick

to avoid having it daubed with honey, removed (and the mat also where one consequently disagreeable to was used) and an empty hive body handle, as well as obviating the daub- placed on top of the hive. The preing of quilts where such frame cover- pared board was then slipped in and placed so the two holes were over the Then folded mats or newscluster. papers were packed down each side of the board to prevent any drafts. Honey diluted one-third with water or a boiled sugar syrup was used for food, and the jars filled with it had a single thickness of cheesecloth tied over their tops, and they were inverted in the holes. The cheesecloth rested against the wire cloth and gave the bees access to the food. The food was heated to 100 degrees F. On each side of the jars were placed several very hot bricks wrapped in old carpet or paper, and over all was put sufficient covering of paper or carpet to prevent much upward radiation. The entrance was closed to barely half an inch in width. Under such conditions the bees usually took down all the food in a few hours, unless the colony was very small. If the food is too thick the bees are not only slow to take it but fly out more, presumably for water, because when one jar had water and the other thick food they took quite a lot of the water.—(M.)

"When our life ceases to be inward ing in winter-relation of which may and private, conversation degenerates into mere gossip."

#### Uses for Honey.

The true, dyed-in-the-wool bee crank looks upon and advocates honey as the most perfect food, and the sovereign remedy for all the ills that flesh is heir to. To such extremes do some of them go that they bring ridicule upon themselves, but nevertheless some of the seemingly odd uses they put it to are really much better than they sound, and for ailments honey is quite as efficacious as many of the more expensive remedies of the druggist.

sausage and some other meats is really very palatable, and much relished by many persons, strange as the combination may sound.

Honey and the juice of a lemon in equal parts well stirred together, taken ents may wonder why their communia teaspoonful at a time will allay many cations have not appeared in The Beea troublesome cough. For more ob- Keeper. This may explain it: stinate ones, the addition of a tea- We have received a number of inspoonful of glycerine stirred into the teresting letters which could have been honey and lemon juice will be found used, either in part or entirely; but helpful.

three or four hours, a pint of hot water ing no room for editing. While all into which has been stirred two big letters are welcome and are read with spoonfuls of honey, the same of cream interest, it is often difficult to find time and as much cayenne pepper as one can to transcribe letters, which we may dereadily take up on a dime. Abstain sire to use. Simply because the writer from any other food for twenty-four has disregarded the simple requirehours.-(M.)

#### A Honey Story.

been going the rounds. The American ed," with hopes of an opportunity to Bee Journal likes it so well that it fix it up for the printer. keeps it on the galley and runs it We cordially invite every reader of every little while:

who is very fond of honey, visited a especially request that letters for pubnear-by city, and at one of the hotels lication shall be written as suggested. was served with some delicious honey. He enjoyed it so much that he told his wife all about it when he returned home.

On his next trip to the city she ac- is to go down perpendicularly."

companied him. They visited the same hotel, and when the noon meal was served, he said to his wife that he hoped they had some more of the

It did not appear, however, and beckoning to the waiter, he said: Sam, where's my honey?"

He was almost paralyzed when that worthy grinned and replied: "She doan work here no more, boss; she done got a job at 'the silk mill."

The wife received a handsome new Honey poured upon cooked bacon, dress before they returned home, after making a solemn promise not to tell the story.

#### To Our Correspondents.

Some of our esteemed correspond-

they were closely written with a lead To break a heavy cold, take once in pencil on both sides of the sheet, leavment of using a pen, leaving ample space at margins and between lines and using but one side of the sheet, Here is a very clever story that has interesting matter is often "sidetrack-

The Bee-Keeper to write fully and A New Hampshire newspaper man, freely upon all matters of interest; and

"If you would get money as a writer or lecturer, you must be popular, which

#### Studying the Bee.

wards royalty,"

become familiar with.--(M.)

#### Pictures for the Bee-Keeper.

charge.

gravings in its pages, and to have them Heretofore all meetings have been world over. Write us about it.

#### The Bee-Keeper Leads.

Is the bee a mere reflex machine, or The American Bee-Keeper voices the is it a creature endowed with reason? most progressive spirit of the bee The bee masters of old thought them world of today. The helpful, useful the latter, and many modern writers and interesting discoveries, practices, follow in the same belief. If they are and appliances will be found first deright, then their only hope for progress scribed in our columns. Many things is to establish schools for bees where which we gave our readers a year or instruction in all branches may be more ago are only just appearing in given, hence we may soon see classes other papers and other valuable items in "larval nursing," "nectar selection," they are still ignoring. The moral "pollen picking," "portaging and pack- is, if you do not want to be behind the ing," (ramming) and "etiquette to- times, you must needs read the American Bee-Keeper. We believe that we The more progressive of modern bee are justified in saying that during the masters consider the bees sensitive ensuing year, we shall present to our machines on which they may play at readers the description of more diswill as soon as they learn the keys, coveries in bee life and of more help The "keys" are the laws governing bee in practical bee culture, than any other life, and are slowly becoming known, two papers in the country, for we have and already the advanced apiarists, got the goods, and furthermore, we those who have broken away from the have some of the most painstaking, old school, have become adept in investigators and experimenters devothandling even the few keys they have ing their energies in these lines to our benefit.—(M.)

#### The Massachusetts Society Meets.

The American Bee-Keeper wants The first of the winter series of good photographs of interesting sub- meetings of the Massachusetts Society jects, for publication. If you have a of Bee-Keepers was held in Boston, camera, write to the editor, Fort Nov. 17. While the attendance was Pierce, Fla., and learn how you may not as large as usual, the customary have your pictures finished without any interest and enthusiasm was quite as expense to yourself. We have a com- much in evidence as ever. One of the plete and extensive photographic de- features of the meeting was an address partment, under skilled management, by Capt. Knight, a veteran bee-keeper, and shall gladly develop all films or on how he got a bumper crop while plates that have been exposed on apia- his neighbors did not do half so well. rian subjects, and finish one print from The key-note of his practice was forced each, for our subscribers, without swarming made at the moment when it would be of the most value, which During 1907 The Bee-Keeper pro- is to say, about one to two days before poses to use lots of photographic en- the bees would swarm naturally.

well printed on good paper. Let us held in the afternoon, but during the all work together for a fine array of coming winter, the experiment will be nice pictures. Our photo department made of holding some of the meetings is at the service of our readers the in the evening, for the benefit of such members as are unable to leave busi-

Richardson, the energetic secretary, hive them today. and Mr. Farmer, the genial president, kept things moving right along.—(M.)

#### Newspaper Extracts.

twelve thousand strong, buzzed into in his window. In the center there lower Courtland St., New York, the was a glass beehive with live bees routed, shopkeepers and policemen to move about. compared and agreed that the sting The Humane Society looked up the of a Russian bee is worse than teeth matter and found he was correct. pulling by the painless method.

from Jamaica, Long Island, to New for exercise, and he agreed to comply Jersey apiaries. When they had given with their demand, after a wordy altera few examples of their sting they cation, in which he was threatened with were easily induced to flock about a arrest.

ness or work in the daytime. Mrs. chimney, where an apiarist expects to

Pittsburg, Oct. 7.—The Humane Society is after G. K. Stevenson, a fashionable grocer, for cruelty to ani-A small army of Russian bees, mals. Stevenson had a large display other day, from a dozen hives in working, so that their operations were which they were supposed to be im- visible. A man who claimed to be an prisoned. Like all invaders they authority on bees passed the store swooped down unmercifully on the un- today and was horrified at the sight, suspecting and left unpleasant memo- He declared that the bees could not ries behind them. Business men were work that way without exercise and stung from Broadway to the North that they would slowly die an awful river. When the invaders were finally death if they did not have a chance

They notified Stevenson that he would The bees were on a cart in transit have to send the bees to the country

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Cincinnati, Nov. 3.—The honey market is rather quiet at this date, owing to the market being flooded with comb honey; selling slowly at from 14 cents to 16 cents. Extracted amber honey selling at 1 1-2 cents to 6 1-2 cents. White and fancy white grade find sale at from 7 1-2 cents to 8 1-2 cents to 8 1-2 cents to 8 1-2 cents to 8 1-3 cents to 8 1-3

New York. Nov. 11.—Comb honey: There is a good demand, principally for fancy stock of both white and buckwheat honey. Mixed and off grades are more or less neglected. Receipts have been quite heavy of late, but there is no over-stock whatsoever, as the demand has been good right along. We quote fancy white at 15 cents; No. 1 at 13 to 14 cents; No. 2 at 12 cents; buckwheat and mixed at 10 to 11 cents per pound. Extracted honey: Demand good, especially for fancy grades. Prices are ruling higher. We quote California white sage at 7 1-3 cents to 8 cents, light amber at 7 to 7 1-2 cents of 8 cents, light amber at 5 to 65 cents per gallon, according to quality. Beeswax quoted at 29 to 30 cents per pound. Hildreth & Segelken.

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