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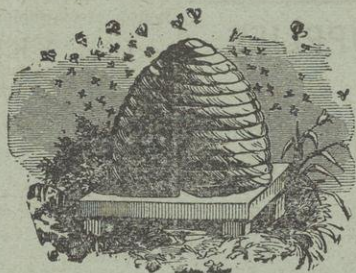
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JUNE, 1887.

THE

THE BEEHIVE



PUBLISHED MONTHLY.

— EDITED BY —

E. H. COOK,
ANDOVER, CONN.

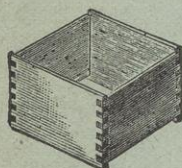


Entered at the Andover, Conn. Post Office as second class matter.

THE BEE-HIVE.

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SUPPLIES FOR Bee-Keepers.

I do not keep supplies for sale all of the time but now have more than I need for my own use. If it is any object for you to order them of me at the following prices, I shall be pleased to receive your orders, and will do my best to give satisfaction. The supplies I have for sale are as follows:

One-and-one-half story hives, in flat, ea.	\$.90
Nailed and painted, each.....	1.25
Frames for above, in flat, per 10.....	.20
Frames per 100.....	1.50
Crate to hold 28 1-pound boxes, in flat..	.25
Sections, 4 1/4 x 4 1/4, per 100.....	.75
As above per 500.....	3.00
Clark smoker, with improvement for cleaning.....	.55
By mail.....	.50
Davis brush.....	.15
By mail.....	.20
Tin, size 18x22, for roof to 1 1/2 story hive	.11

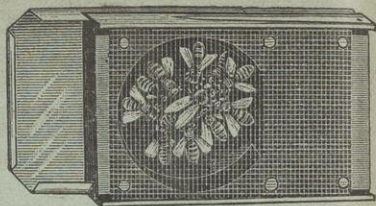
COMB FOUNDATION.

For brood frames, per lb.....	.45
For section boxes, per lb.....	.55

Bee-keepers of Maine who are in need of supplies of first quality work will find it to their advantage to get my prices, as I can have goods shipped to you from your own state and save freight charges.

E. H. COOK,
Andover, Conn.

For Sale. One of A. I. Root's Lamp Nurseries for hatching Queen-Cells. Has never been used. Price on application.
BEE-HIVE, Andover, Conn.



All queens sent by mail shipped in cages like the above with directions for introducing.

Italian Queens.

I shall make a specialty of rearing first-class queens this season and would respectfully solicit a trial order from those in need of them. Early this spring I expect to receive from Mr. Frank Benton of Schwabing, Germany, one of his very

Best YELLOW Italian Queens,

from which I shall rear a large part of those I send out. Last season I sent out a number of very Yellow queens which gave good satisfaction and though no better than the darker ones, nine out of every ten customers would write: "Send Yellow queens." I guarantee satisfaction to all who order.

Prices for June.

One untested queen.....	\$1.00
Two or more, each.....	.90
Tested queens, each.....	1.50

BEEES BY THE POUND.

One pound or more, per pound.....	1.00
-----------------------------------	------

NUCLEI.

Two-frame nuclei with untested queens, each.....	2.50
--	------

Safe arrival guaranteed.

Orders filled strictly in rotation. No discount from above prices except to dealers.

"A Word to the Wise."

Last season I was unable to fill all of my orders; hence would advise those who want any of my queens to send in their order and have it booked.

The order must be accompanied with one-fourth the amount as a guaranty of their being ordered, before it can be booked.

E. H. COOK, Andover, Conn.

SEE OUR ADVERTISING RATES.



BEE-HIVE.

PUBLISHED FOR AND IN THE INTEREST OF BEE-KEEPERS, BY ONE OF THEM.

VOL. 2.

ANDOVER, CONN., JUNE, 1887.

NO. 3.

GOOD-BYE, SWEET DAY.

Tho' loth to say good-bye to this sweet day—
This day that brims at lip with amber wine
Brewed of sweet memories,
This syren, wooing bees
To dreams of wassail with the columbine
And lingering glances of enamoring May.

Tho' loth to say good-bye to such as this,
I fill my heart with no sad requiem,
But from the mountain's crest,
Into the billowy west,
Watch the dear guest go down, and as the hem
Of evening's curtain folds, steal a last kiss.

Good-bye, sweet day! Over the white, white
gown
That soon will fold the daisy-downs in sleep
There will a shadow be
Of thy loved face, to me
A promise of thy coming back to keep
Faith's tryst, and light the stars in Spring's rich
crown.

Modern Apiculture;

OR,

How Frank made Bee-Keeping Pay.

CHAPTER VIII.

WE left Dick standing near the bench with his veil off and the bees that Harry had upset, flying about him. Before he hardly realized what had occurred, he awakened to the fact that his sense of feeling was never more acute than at that very moment.

Grabbing wildly with one hand at the back of his head, where several bees were doubled up in that way known to every apiarist, and the other hand making a series of motions in front of his face that would have

been a credit to a sleight-of-hand performer, he started toward the shop at a flying pace, shouting:

"You did that on purpose Harry Brown; see if I don't pay you back!"

By the time he reached the shop most of the bees had ceased to follow him, and only a few lingered about the door-way as though daring him to come out and try it over.

"Ho! ho! ho!!" roared Harry, sitting down and shaking with laughter; "didn't those bees make old man Friday skip right pert? My! if this is the way transferring works, count me in 'every time.'"

"I will carry Dick his veil so he can come back if he wishes," said Frank, also laughing as he proceeded toward the shop, where Dick was vigorously swinging a shingle about in front of the door.

"I would n't cuff at them in that way Dick; it will only irritate them the more."

"Then they can clear out, I don't want any thing of the little scamps. I reckon you 'd feel like cuffing something if they had stung you the way they have me," said Dick mournfully,

"Did you get stung so very bad?" inquired Frank, his eyes twinkling merrily as he looked at Harry who had now joined them.

"What a question that is to ask a fellow after nearly half a bushel of bees had been flung over him."

"But where *did* they sting you?" Harry inquired with a sorrowful-looking face intended to deceive Dick.

"Well-er-er I do- don—do you suppose I am going to stand here all day

just to answer questions like a clown at a circus?"

"I can't see much difference between a clown standing still and one running the way you did a few minutes ago; only it's vastly more amusing to see a good lively one if we must have one about," responded Harry laughingly.

"Oh yes, very funny is n't it to pitch a lot of bees over your brother just to get some amusement," Dick retorted sullenly, as he went toward the road, but making off across the yard at the north side of the house so he would escape any stray bees that might be in quest of him.

"Now don't go off in a huff, Dick, I will see to it that Harry stops bothering you," said Frank, "so you need not leave on that account."

"You are both *very kind*" Dick answered sarcastically, "but I hope you will try some of these funny games on each other and then you'll know how good it is."

"He'll be back again I'll bet in less than half an hour" said Harry as they returned to the bees that had been left to take care of themselves. It was well for Frank that the day was quite a warm one or the brood would have been chilled from being exposed to the air so long. Frank now commenced fixing the combs into his frames, but never having seen the operation performed his success was not very satisfactory. However, with some difficulty they were fastened in by tacking several sticks across one side of the frames, then cutting the combs so they would go into them and fastening on more sticks to keep them from falling out when the frame was lifted up. In about half an hour he had four of the frames ready to hang in the hive.

"The bother take these bees!" exclaimed Harry, working the smoker as hard as he could, first on one side of the bees and then on the other in his endeavor to drive them from the cloth into the new hive, while the only

result of these efforts was to make them run in every other direction.

"Let me get in these frames and see if that will make any difference with them," Frank said, proceeding to take off the cover and place them in the hive, arranging a division board he had made on one side and laying a piece of carpet over them. What a change this produced with those bees! Instead of running here and there in wildest confusion they set up a humming kind of sound, that once understood by the apiarist will never be mistaken to mean any thing but joy, and commenced going into the hive with a rush that astonished the boys.

[Continued next month.]

Written for the Bee-Hive.

G. M. Doolittle's Method of Rearing Queens.*

THE NEAREST APPROACH TO NATURE'S WAY YET DEVISED.

For the Novice and the Scientific Bee-Keeper

The Importance of Good Queens.

In no one thing in bee-keeping does good quality count for as much as it does with the queen or mother bee. Upon her centers the *whole* of bee-keeping. It would be impossible to secure a pound of honey without the queen. While a poor queen is better than none, yet it must be patent to all that the better the queen is the more workers we get, and the more workers we have at the right time, the more honey we obtain.

When we come to fully realize the great value of a *really good queen*, one that you can get to lay from three to four thousand eggs a day, six or more weeks before the honey harvest, so as to have our force of laborers when the

field is ripe for the harvest, we shall hear of less queens which "cost the apiarist nothing." Good queens cost something, and are valuable in proportion to the pains taken in rearing them.

Hoping that the time is not far distant when all will take more pains in this part of our fascinating pursuit, I thought that it might not be a bad idea at this time to give to the readers of the BEE-HIVE a plain statement of some of the plans I use to procure queens for my own use, always aiming each year to excel any thing done in the past. In doing this it shall be my aim to make all as plain as possible, so that even the novice can understand the how and why of it.

To show the reader how thousands and millions of queens have been reared, and how a few even of our queen breeders rear queens at the present time, I will give a bit of my first experience along the line of queen rearing.

The Old Way of Rearing Queens.

All queens at that time were fertilized in nucleus boxes and most of them reared in the same. These boxes were about six inches square, and held two or three little frames about four or five inches square. Into these frames was fitted any old comb and bees put in the same, when a queen-cell from a hive or another box was inserted. When the queen was hatched and got to laying she was sent off and the little handful of bees allowed to rear another queen as best they could, when she in turn was sent off. As I wished to know all about it I made a box, and to get my bees to stay in it I hived about a tea-cup-full of bees and queen from a second swarm in the box.

In a few days the queen was laying so I took her out and left the homesick little fellows to rear a queen. I looked at them every day to see what prog-

ress they made, but no cells were started. One day about this time a bee-keeper came along who had reared hundreds of queens and figured quite largely in the bee world of twenty years ago. I appealed to him for the reason why the little colony of bees did not construct any queen-cells.

He looked at them and cut a small hole out of one of the combs where there were small larva, saying that now they would start cells, which they did; three in number. Without carrying the story farther suffice it to say that from them I got a queen, so small and so poor, that I said the rearing of queens in such a way as that was only a damage to bee-keeping, and I would never use the plan again, which thing I have always stuck to ever since.

I give this to show how some still rear their queens and yet call them as good as any. Gentlemen I beg of you, don't do it any longer, for all must know, it seems to me, that only inferior stock can result from such a procedure.

The Method Now in Use: Its Defects.

I next used the plan of getting cells, which is still commonly used, which is that of taking the queen and brood away from a strong colony and giving a frame of eggs for its bees to rear queens from, taken from our best colony. This plan proved better than the first, still I found several objections to it; such as that it necessitated the cutting or mutilating of nice combs, and the bees seemed in such a state of disorganization that they did not rear any thing like as good queens as when reared by natural swarming where the bees had their own way. Then cells would often be built over advanced larva toward the last of their cell building, so that a part of the queens would live but little over a third as long as they should.

[Continued next month.]



Written for the Bee-Hive.

Spring Notes.

PREPARING FOR THE HONEY HARVEST.

It is my experience and observation that teaches me to observe the following rules in spring management :

1st. Prolific queens, if possible.

2d. Heat. Keep all openings at the top of the hive closed and keep the entrances contracted. My hives are surrounded with three inches of chaff and two thicknesses of boards on every side but the top; that is covered, first with enamel cloth, second with burlap, third with board, and above this, with air space—the gable roof of the hive. I think that with heat retained bees will increase faster and more naturally than by any system of inversion or spreading of the brood.

3d. Stores. If they have plenty of capped honey I think it will do no injury, in case of strong colonies, to uncap three or four pounds at the right time, and in case of weak colonies will greatly benefit them. Uncapped honey near the brood is natural and more of it will of course stimulate. Feed colonies out of honey of course. The object of all spring management must be to secure as large a force of workers as possible at the *opening* of the honey harvest. I cannot tell when the honey season opens in Connecticut, but I can tell when it will probably open in Vermont, and each reader can adapt the following to their own locality.

The honey harvest here extends

from about the tenth of June to the middle of July, though I have learned that it may be much shortened by drouth. It takes bees three weeks to hatch, one or two more to become of much use as honey storers or gatherers. Five weeks before June tenth places us at the present date. Now or never. I hope and work to secure every egg possible. A queenless colony now is a dead loss. Boom, busy bee, boom! Fruit bloom will be fully open in a very few days and then surely the new honey will stimulate them to their utmost. Another month will tell the story of the bees and another two months the story of the honey.

JOHN H. LARRABEE.

Larrabee's Point, Vt., 5-10.

Written for the Bee-Hive.

A Hard Spring for Bees.

THE TRENCH METHOD OF PACKING BEES NOT ALWAYS SUCCESSFUL.

Editor of Bee-Hive :

As we are "out of the woods," as far as continued cold weather is concerned, I will give you our report for this locality. Although the bees came through the winter months in fair condition, the cold and changeable spring weather has caused serious losses to us all. A number of neighbor beekeepers have lost nearly all, and my loss was a little more than one third. Mine were wintered in a cellar and most of those that died would have come through all right if I had not been obliged to remove them too early, on account of water getting into the cellar during the early rains.

A neighbor has been giving the trench plan, as described on page 20 in the May BEE-HIVE, a trial for two years. He was very successful a year ago and was well pleased with this mode of preparing for winter. This season however he is not so well satisfied with the plan, having lost over one-half of his colonies. I am inclined to favor a well arranged and a

good dry cellar for winter quarters. Our little workers are now busily at work on the fruit bloom, and building up rapidly. They will be in good condition for our principal crop, white clover.

I wish to congratulate you Mr. Editor, on the neat and business-like appearance of the BEE-HIVE.

E. L. REYNOLDS.

Westville, Ind., 5-11.

[Your kind words are fully appreciated. No doubt the packing of bees in a trench will fail now and then, for even cellar wintering is more or less uncertain—much depending on the way the cellar is arranged and the thoroughness of the bee-keeper in the various details of management.—Ed.]

Written for the Bee-Hive.

Starting Bees at Work in Sections.

FEEDING HONEY IN SPRING MORE PROFITABLE THAN SUGAR.

Editor of Bee-Hive :

Noticing answers to enquiries in May number I would suggest several that I have found efficient.

1st. The *best* way I have ever had of making bees work in sections, was to cut a piece of drone comb that was full of unhatched bees, and place it directly on top of section case or frames, under the enameled cloth. This will cause them to move up into the sections when nothing else will. I use drone comb, as I do not value it as highly as worker comb, though the worker will answer same purpose.

2d. After repeated trials of leaving enameled cloth on hives in winter, I find it detrimental.

3d. My experience has been that honey gathered in autumn from buckwheat, goldenrod, etc., (the same conditions regarding brood in hives, winter packing, etc., being equal) will winter a colony of bees as well and

safely as the finest of clover or basswood honey stored in June or July. Bearing in mind always that the late made honey shall be well ripened and *capped*.

4th. I never make any attempt at putting frames back in brood-nest in same order each time, unless it be in early spring, when brood rearing is just commencing. At that time the utmost care should be used that no frame containing brood shall be put in a position of danger by chilling.

5th. As regards building up in spring. I think it pays better to buy extracted honey at 10 to 12 cents per pound, than granulated sugar at 5 $\frac{3}{4}$ to 6 per pound to feed in spring. Honey feeding in spring will stimulate bees to greater exertions in brood rearing, than any other food. Let doubters try it and be convinced. But let me add two cautions:

First. Woe to the careless apiarist who allows the bees to get a taste of their own sweet, outside of a hive; for it will stimulate robbing as quickly as brood rearing.

Second. Boil all honey fed your bees unless it is taken from your own apiary, and thereby prevent the spread of diseases.

25° Below Zero and no Loss.

I have to report an exceptionally fine wintering of bees in this cold climate. I carried all my colonies through without loss. The thermometer frequently reaching 25° below zero outside. In my experience of 12 years I have never known so little loss.

F. H. CHAPIN.

Hinsdale, N. Y., 5-9.

[65]

[When you say use only "capped" honey for winter stores, think you have hit the right place. From what we now know about bee-diarrhoea, we believe three-fourths of the losses in New England are traceable to going into winter quarters with too much uncapped honey, in connection with much damp weather.—Ed.]

Written for the Bee-Hive.

Change the Name.

I rise to second the motion made by G. W. Demaree. The word "extracted" as applied to liquid honey *is* a misnomer and ought never to have been adopted. It is bad enough when our neighbors who have every opportunity of observing the process of "extracting honey," cannot be educated to accept and understandingly use the name, but graver consequences ensue when our city dealers consent to handle "extracted honey" only as an adulteration,—or something for them to adulterate.

"Of course you do not claim that "extracted honey" is *pure* honey?"

Never was a greater insult offered to me then when a knowing city grocer made use of the above remark in a confidential tone, intended to "draw me out." Then what shall we call the "Extractor?" I propose the name Honey Separator. We all know that a grain separator is a machine that separates the pure grain from the straw, chaff, etc.: then why should not the machine that separates the pure honey from the wax, brood, etc., be called a HONEY SEPARATOR? Let us have a free discussion and a full vote on this important question.

S. P. YODER.

East Lewistown, Ohio, 4-25.

[Give us your best thoughts on this subject, for friend Y. is right in saying that it is important—important that we have a name that will if possible *help to sell the honey*, for the present one is only an injury at best, and highly favors unprincipled scoundrels in their adulteration of Nature's choicest sweets. We do not think with brother Newman that it should be *put off* until the conventions next fall. Let us begin *now* and if we are unsuccessful, then the conventions can take the matter in hand. What say you brother apiarists?—ED.]

Written for the Bee-Hive.

Maple Glen Apiary Booming.

Friend Cook:

Allow me to return thanks for the BEE-HIVE. Maple Glen apiary is booming as well as the season will allow. Soft maple is a failure this time and bees are not storing very much yet. I came through without any loss. In looking over a colony on the 14th of March that was light in stores, I took out the outside frame on the northwest side of the hive to put in a frame of stores, and what do you think I found? To my surprise I found in that outside frame a patch of sealed brood as large as the palm of my hand, and some unsealed also.

What We Want to Know.

No. 1. In spreading the brood how can you return a frame to the same place that you took it from? Therefore I say no.

2. It is supposed that it is, but my bees have had to winter on late stores, as I run for comb honey as long as they are gathering any thing to speak of, and I have never lost a swarm nor seen any signs of dysentery; therefore I am not sure.

T. B. MOWRY.

Oneco, Conn., 5-9.

Written for the Bee-Hive.

A Word for Chaff Hives.

In answer to query in December BEE-HIVE, "Are chaff hives, all things considered, to be preferred to single walled?" Three of the answers are not in favor of chaff hives. Perhaps they are "worthless for winter" in Wisconsin with their extreme cold winters, but in this latitude we winter our bees in them with almost certain success, while those wintered in cellars as far as my experience goes come out weak in the spring and are apt to dwindle. As to summer they are bet-

ter than single walled hives because bees cannot build comb without considerable heat which they cannot keep up in single walled hives in many of our nights, which are often cold enough to drive the bees out of the supers. Also in a very hot sun they make a nice shade for the inside hive. Will friend L. J. Waldo tell us *why* he could not get as much for the crate of honey where he used separators as that where he did not?

In answer to query in February BEE-HIVE: I give weak colonies frames of brood from strong colonies. I do not unite weak colonies early, but build them up as strong as I can, and if they are not strong enough I unite just before the honey flow begins *a la* Doolittle. My bees are all packed in chaff hives on the summer stand. They are doing well.

JOHN H. RUPERT.

Woodcock, Penn.

A Busy Bee-Keeper.

FIVE YEARS OF SUCCESSFUL WINTERING.

Friend Cook:

You have furnished me several specimen copies of the BEE-HIVE. I guess I had better subscribe, as I don't want you to furnish any more free. I already take four—*Gleanings, Am. Bee Journal, Canadian Bee Journal* and *Bee-Keepers' Magazine*. Probably I shall not get much time to read them until next fall or winter, as I have two apiaries that I run to comb honey (home apiary contains 118 full colonies) and will probably soon have besides that about 150 nuclei or queen rearing colonies.

I have wintered my bees right along for five years without the loss of a single colony—that is a colony dying outright. Have some queenless colonies sometimes that I have to double up in spring. After the busy season is over perhaps I will give you my views and mode of packing bees

for winter on summer stands, should you wish.

E. L. WESTCOTT.

Fair Haven, Vt., 5-5.

[Friend W., we shall be very glad to give our readers the benefit of your experience in packing bees for winter.—ED.]

How C. B. Barrows packs Bees for Wintering.

E. H. Cook, Editor of BEE-HIVE:

I seldom write for the papers but will answer the question on page 59 of BEE-HIVE, "How did you pack your bees for winter and are they doing well?"

The first part of October I took off all surplus arrangements, put one or more thickness of burlap on the brood frames. No sticks under burlap, no holes cut through combs for passages and from the 12th to the 16th of November I left the caps on the summer stands and *packed* the brood chambers in the north part of my cellar in double rows about two feet apart fronting each other, three or four tiers high, so I can pass between the rows and clean dead bees out of the hives, and about the middle of the cellar, about four feet from the cellar bottom I hang a thermometer.

On the 22d of November I built a fire in a stove which has been burning slowly ever since, and while the thermometer has shown two or three mornings as low as 34 or 36°, most of the time it has been between 40 and 50° above zero. "Are they doing well?" I should say they were—they are just as dry and sweet as when placed in the cellar. Did any one ever know bees winter thus that did not do well?

C. B. BARROWS.

Marshalltown, Ia., 2-18.

Subscribe now for THE BEE-HIVE.

Objects to "Extracted."

In ordering some labels friend Pinkerton of Iowa says:

Please leave the word extracted off. I think that will be an improvement, as a great many people get it *extract of honey*. They ask what the extract is made of. If they would all ask I could soon explain it to them; but some have had the impression for years and never mentioned it until this winter, and when I explained that it is pure honey right out of the comb, they could understand it at once.

Hereafter I think I shall call one pure honey and the other comb honey. I set two hives out two weeks ago, and have 154 in the cellar yet. They are quiet, the thermometer standing at 54°. Have had 12 inches of snow for the last three days, but it is getting soft and when it goes think I can set the bees out.

Thumping the Hive.

I want to help friend G. W. Demaree "thump on the hive"—on that part of the hive where the honey is stored for "Extracting" (?) until we have started a responsive "hum" that can be heard from Maine to California.

S. P. YODER.

[You have given the "hive" a right smart thump this time friend Y., and if the "bees" fail to make it warm for any dissenters to the proposed change, we want you and friend D. to thump it again—many times if necessary.—Ed.]

Too Much Exchange.

Regarding the advertising qualities of the BEE-HIVE, the following speaks for itself:

Please drop my exchange notice from the "Bee-Hive." One issue of your paper has given me all the exchange I want this year. Printers' ink is worth something.

Respectfully, A. S. Porter, Canfield, O.

Thos. Horn.

We wrote Mr. Horn the 30th of April in regard to several unsettled claims which he has not made square. Below we give his reply in full.

Sherburne, N. Y., May 7, 1887.

Friend Cook:

Yours of 30 ult. received, and in reply will say that I will do for your subscribers the same as others, and give them my note at two years and take them up just as soon as I can, hoping that this will prove satisfactory. As to your threat friend C., for such it is, I do not fear it. Now as to the Wm. J. Shaw order, he is marked returned 7-19, and L. J. Waldo I have no record of ever having received any communication from him whatever. If you can show reasonable evidence that Waldo ever sent me an order, or that Shaw never received his money back, I will make them good for all loss, and as to your claim I will meet it inside of 90 days.

Resp't, Thos. Horn.

Very well Mr. Horn, we will show what we consider "reasonable evidence," which is that friend Shaw wrote us May 2d, '87, that he has never received any thing from you. Friend Waldo says he enclosed \$2 in a letter to you for two queens. Not receiving any reply he wrote again in two weeks, still no answer; ten days later he wrote you for the third time with same result. Now the "evidence" comes in when you say in *Gleanings*:

"I find very many of the complaints received are marked in his [the book-keeper's] hand sent. Whether the errors were his or the yard help, I can not say * *."

Messrs. Shaw and Waldo are both honest men, while the book-keeper, according to your own account, was not reliable; hence the order being marked "sent," was in this case no proof that it had. The failure of friend W. to receive a reply to any of his *three* letters is only another instance of the infidelity of said book-keeper. We shall expect you to send each of the above your note, payable within two years with ten per cent. added, as you propose. The threat referred to, was to publish Mr. Horn as a dead beat unless he settled these claims.

That Bee-Keepers' Meeting. Bees Booming.

I wish we could start one, and we might possibly do so if we would only try. I have lost one colony of bees the past winter—they had the dysentery. My other five colonies are in tip-top shape, and are rushing business. I have not opened a hive this season yet but they are working for all they are worth.

L. J. WALDOW.

Merrow, Conn., 4-4.

[That little word "TRY," friend W., has "floored" greater things than a bee-keepers' society, and it will this one unless more interest is manifested in regard to it than has thus far been expressed. That such a society, did it meet but once a year, would benefit every bee-keeper who attended it no one can doubt. Could some philanthropist with a fat pocket-book, give notice of such a meeting, offering to pay all expenses, the number of bee-keepers(?) that would be ready to attend such a convention would be enormous. Wake up! bee-keepers of Connecticut! Don't wait for your neighbor apiarist to start, for he is waiting for you!!!—ED.]



Under this heading we solicit articles from our lady friends pertaining to bee-culture.

Written for the Bee-Hive.

Bees in Good Condition.

REPLIES TO QUERIES IN MAY NUMBER.

In your wants for May you wish to know if frames should be put back to

the same place they were taken from; also if late stored honey will cause dysentery more than early gathered honey. As to the first article, I think if bees and early swarms with large yields of honey are desired, they should not be returned to the same place in spring, but spread the frames that are the nearest full of brood and place the ones having the least brood between them, as fast as the bees can cover them and not have any brood chilled.

No. 2. I think as a rule that late stored honey is much more apt to cause dysentery than early gathered honey, but I have never wintered my bees better than the past winter, and I cannot remember a fall when my bees gathered more honey and later than last fall.

My bees are all very strong now. I have but three that I call weak, and they have four frames of brood and plenty of bees to cover two more frames, the balance have from 7 to 10 frames of brood. I have five colonies with 10 frames of brood which have been hanging on the front of hives for over a week, the clusters reaching clear to the cap of the hives, and as our apple bloom is just at its best I gave them each a case of sections, which at once brought them back into the hives. I think I run a fair chance of getting the first swarm.

MRS. J. R. HILL.

Box 137, Plain City, O., 5-7.

In *Gleanings* Mrs. E. J. Baxter gives the following recipe for making honey-cakes: Work together equal weights of honey and flour; add spice to taste, and the right proportion of baking-powder. Keep this dough in the cellar, and bake it as you need it, in a very slow oven. The cakes will be all the better if the dough has stood for a long time.

THE BEE-HIVE free one year to any lady who sends us a practical article on bee-keeping for this department. It is worth trying for.

THE

 Bee Hive

PUBLISHED MONTHLY.

E. H. COOK,
 EDITOR AND PUBLISHER,
 ANDOVER, CONN.

Subscription Price, 30 cents Per Year
 in Advance.

Editorial Ink Drops.

May has been very warm and dry, and unless we have rain soon the honey crop will be light in this part of New England.

Reports from all quarters confirm our opinion as expressed in April number. Probably one-third is not an over estimate for the amount of bees lost the past winter here in New England. In the West the loss as reported is very light; also in Canada.

Dr. J. P. H. Brown of Ga., a prominent bee-keeper of the South, lost his residence and contents by fire. Valued at \$4000; no insurance. It should be the duty of all owners of buildings to have them insured. It costs but little each year and if they do burn down, then something is left to start with again.

Please send in articles appropriate to the season and they will be more in the line of progress. Give any suggestions that will help to economize work in the apiary, or help to make bee-keeping more profitable. It is the exchanging of ideas that enable us to know how each one does this or that operation, and to compare their method with ours—many times to our advantage.

Y If you receive a copy of this number and are not already a subscriber, please consider it an invitation to become one now. U

The Poulter, of Mt. Vernon, O., is one of our brightest poultry exchanges. We highly commend their fearless course in publishing frauds. It can be found in our club list on another page.

Every colony should be supplied with a *prolific* queen. By this we do not mean one that lays only fairly well; but one that keeps her combs well filled with eggs. "But such queens cost something." To be sure they do, and they are worth all they cost too! One good queen is worth a half-dozen poor ones. Many colonies that do not gather honey and only hold their own in numbers during the honey season, and are a puzzle to their owners, would give a good profit if they had prolific queens. The queen is the life, the vigor and the industry of a colony! One can almost invariably tell what kind of a queen a colony possesses by watching the bees.

Friend Stratton of hazardville, Ct., sends us a sample of the hives he manufactures, for which he has our thanks. It contains 10 frames $10\frac{3}{4} \times 14$ inches, outside measure. The brood chamber is $14\frac{1}{2} \times 14\frac{3}{4} \times 13\frac{1}{2}$ ins. in height, and has a portico in front. A honey-board keeps the bees down when the crate is not in use. At the back end of the brood apartment are two round glass panels, $5\frac{1}{4}$ inches in diameter, so that by turning a button on the outside, a sectional view of the frames is obtained. Were it not for the fact that all our fixtures are for the L. frame, we should certainly adopt this sized frame, as it has always appeared to us that the L. was too long. Friend S. also sends samples of foundation made on the Given press, which are excellent. It is claimed that fdn. made on this mill is more easily drawn out by the bees than that made by rolls. We hope to give the two kinds a trial, and if we do will report the result.

D. S. Hall of Lower Cabot, Vt., sends a sample of his one and one-half story chaff hive. The brood chamber takes the regular L. frame being the same size as the Simplicity hive. The half story is made to hold 44 1-lb sections or it will take any of the crates that go on the S. hive. The frames are spaced at even distance apart by V-shaped pieces fastened to a thin stick the necessary length. The cover has a sloping roof and the whole hive looks quite neat and tasty. The sections are held in place by single-tier wide frames which rest on pieces at each end. This hive has one advantage, in our opinion, over the Root chaff hive; in not being so large and cumbersome to handle and for ought we see answers the same purpose equally well. But may we make one suggestion, friend H., which is that the narrow slits in the ends be filled, or covered with wire cloth if they are intended for ventilation, for a beginner might get into trouble with bees robbing before he thought to stop them up.

We presume that either of the friends above will give prices and particulars of their hives on request.

At this date the following reports of early swarms have been received:

*Chas. H. Lewis, Middletown, Conn.,	May 15th.
Mr. Bill, Southington, Conn.,	May 17th.
E. D. Barton, East Hampton, Conn.,	May 19th.
*W. E. Kline, Evans City, Penn.,	May 5th.
W. F. Ebert, Carbon Black, Penn.,	May 14th.

Those marked with a * are entitled to the BEE-HIVE one year.

Our Question Box.

In this department subscribers are invited to ask practical questions on bee-culture. All who can answer them are cordially requested to.

Is it your opinion that late gathered uncapped honey taken in connection with considerable damp weather would cause dysentery? Supposing of course that only a part of the honey is uncapped.

Exchange Notices.

Under this heading we will insert notices of exchange—not advertisements—not to exceed 35 words of matter free of charge to the SUBSCRIBERS of the BEE-HIVE.

WANTED.—To exchange a colony of Italian bees in L. hive, for a silver dollar of 1804 date.
L. J. WALDO, Merrow, Conn.

WANTED.—To exchange hives, brood-frames, etc., for a foot-power lathe that will turn about 9 x 25 in. O. H. HYATT, Shenandoah, Iowa.

TO EXCHANGE.—The Alderbrook Poultry Farm; 20 acres; breeding stock; cosey house, barns, poultry houses; all new, for ready made clothing or desirable personal property, or offers.
Box 250, West Eaton, N. Y.

WANTED.—To exchange a good 8 x 10 camera, tripod and Darlot view lens, with book of instructions, for foot-power saw or extractor.
N. S. DAVIS, Somerset, Mass.

WANTED.—To exchange a good colony of bees for poultry of any kind. Mass., Conn., or R. I. offers only.
C. E. ANDREWS, JR.,
10 Haswell St., Providence, R. I.

WANTED.—To exchange a fine set of Keuffel and Esser's mechanical draughting instruments, with India Ink, triangular, rule, gutta percha triangle and T square all complete, for comb foundation.
J. H. LARRABEE,
Larrabee's Point, Vt.

WANTED.—To exchange one 6-in. circular rip saw, one telescope (paid \$3.00), one book of H. Alley's Queen-Rearing, for wire nails, hammers, small saws, any thing I can use in hardware. W. F. EBERT, Carbon Black, box 48, Pa.

WANTED.—To exchange 100 varieties of seed potatoes (many old and rare varieties also most of the new ones) for bees.
JOHN H. RUPELT, Woodcock, Crawford Co., Pa.

WANTED.—To exchange a new French telescope (cost me \$1.) for a sitting of either Wyandotte, Buff Cochin, or Rose Comb Brown Leghorn eggs.
W. A. HILLS,
Bradshaw, York Co., Nebr.

WANTED.—To exchange 2000 names (genuine) of bee-keepers for same number of different ones.
BEE-HIVE, Andover, Conn.

WANTED.—To exchange S. reverible frames for a honey extractor; also bees for a good cow.
H. W. HARVEY, Keene, N. H.

Our Clubbing List.

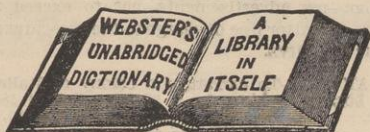
The following prices are for the paper named and THE BEE-HIVE, both for one year.

Am. Apiculturist.....m	\$1.00
Am. Agriculturist.....m	1.25
Bee-Keepers' Advance.....m	.50
Century Magazine.....m	3.75
Farm and Garden.....m	.45
Gleanings in Bee Culture.....s-m	1.15
Household.....m	1.00
Southern Cultivator.....m	1.30
Western Plowman.....m	.60
The Poulter.....m	.65

E. H. COOK,
Andover, Conn.

WEBSTER

With or without Patent Index.



Your Attention is invited to the fact that in purchasing the latest issue of this work, you get

A Dictionary

containing 3000 more words and nearly 2000 more illustrations than any other American Dictionary.

A Gazetteer of the World

containing over 25,000 Titles, with their pronunciation and a vast amount of other information, (just added, 1885) and

A Biographical Dictionary

giving pronunciation of names and brief facts concerning nearly 10,000 Noted Persons; also various tables giving valuable information.

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GET THE BEST Webster—it has **118,000 Words, 3000 Engravings, and Four Pages Colored Plates.** Standard in Gov't Printing Office. **32,000** copies in Public Schools. Sale **20 to 1** of any other series. aid to make a **Family intelligent** Best help for **SCHOLARS, TEACHERS and SCHOOLS.**

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Webster is Standard Authority with the **U. S. Supreme Court.** Recommended by the **State Sup'ts of Schools in 36 States,** and by over **50 College Presidents.**

GET THE LATEST.

Invaluable in every School and Family.
G. & C. MERRIAM & CO., Pub'rs, Springfield, Mass.
Mention the Bee-Hive.

Bee-Keepers!

EVERY THING YOU NEED
IS IN MY

➤ NEW CATALOGUE. ➤

JUST—
—OUT.

1887

FULLY
Illustrated

Send For It.

EASTERN DEPOT
FOR

Dadant's Foundation.

EDWD. R. NEWCOMB,

6t Pleasant Valley, Dutchess Co., N. Y.

HEADQUARTERS IN THE SOUTHEAST

For the Manufacture of

Bee-Hives, Sections,

Section Cases, Foundation,

And all Apian Supplies, at greatly reduced prices. Send for new circular with description of the

“SUCCESS HIVE”

Which is fast gaining favor of many
Bee-Keepers.

ALBINO QUEENS AND BEES FOR 1887.

It should be remembered that we are headquarters for the “Albino Queens” and Bees. We also breed select Itallans. CIRCULARS, FREE.

S. Valentine & Sons, Hagerstown, Md.
Washington County.

Mention the Bee-Hive.

Fine Rubber Printing Stamps

for Bee-keepers, etc., etc. Send for Catalogue.
2-6 G. W. BERCAW, Postoria, Ohio.

Mention the Bee-Hive.

Bee-Keepers' Advance,

a Monthly Journal,

Sample copy sent free with
our Illustrated Catalogue.

Don't forget to send name
and address on postal to

J. B. Mason & Sons, Mc. Falls, Me.

Mention the Bee-Hive.

The California Cackler IS
THE ONLY

Poultry Journal on the Pacific Coast.

Circulates in nearly every country in the world. Only American paper of the kind with regular agent in Australian Colonies. Handsomely illustrated. Magazine form, 28 pages; published monthly. Sample copy, 10 cents. Subscription in advance, \$1.00 per year. 13 Pine St., S. F., Cal.

Mention the Bee-Hive.

SMITHS'

One-piece Section Factory.

Special prices to dealers and large consumers. Write us for price, stating how many you want. Price list free to all.

SMITH & SMITH, Kenton, Ohio.

ITALIAN & CARNIOLAN QUEENS

Bred in separate apiaries away from all other bees. **NUCLEI, BEES BY THE POUND, AND FULL COLONIES.** Be sure to send for my Reduced Price List and Circular, giving full particulars, before you purchase. Satisfaction guaranteed.

CHAS. D. DUVALL,
Spencerville, Mont. Co., Md.

Mention the Bee-Hive.

SEE HERE!

YOU CAN BUY NICE
SIMPLICITY & CHAFF BEE-HIVES,
SECTIONS AND SHIPPING CRATES OF
D. S. Hall, Lower Cabot, Vt.

Send for Circular.
Mention the Bee-Hive.

Italian Queens & Bees.



- Tested queen..... \$2.00
- Untested queen..... .75
- Six untested queens... 4.00
- 1/2-lb. bees..... .60
- 1 lb. bees..... .90
- Add price of queen with bees.
- 2-frame nucleus with untested queen, \$2.00.

T. A. PEW,
MIDDLETOWN, - - MO.
Reference, A. I. Root.
Mention the Bee-Hive.

Honey Labels.

PRINTED IN COLORS

We have in stock honey labels printed on toned paper in red and green, and red and blue. Size, 3x6 ins. They contain these words, "Pure Extracted Honey." Will send them by mail with name and address printed in for 30c. per 100; or 25c. per 100 for two or more hundred.

Send for sample.

E. H. COOK,
Andover, Conn.

FOR SALE CHEAP!

One 10-inch Pelham Foundation Mill. For sample of its work and price, address

BEE-HIVE, Andover, Ct.

ADVERTISING RATES.

As we are constantly receiving inquiries in regard to our rates for inserting advertisements, we give prices below. All advertisements, to receive attention, must be accompanied with the cash. No frauds, dead beats, or parties of a similar character admitted (knowingly) at any price. Our circulation is steadily increasing, and, mailing, as we do, many sample copies to those practically interested in bee-culture, we are confident that advertisers will find it for their interest to place an ad. in the columns of THE BEE-HIVE.

PRICES:

Space.	1 mo.	3 mo.	6 mo.	12 mo.
One inch.....	\$.25	\$.60	\$1.00	\$1.50
Two inches.....	.50	1.10	1.90	3.00
Four inches.....	.90	2.05	3.60	5.50
One column.....	1.50	2.80	5.40	9.50

When it is desired to change the wording of an advertisement that is to run 6 or 12 insertions, 15 cents per inch must be added to above prices for each change. Those who place an advertisement of 1 inch or more for one year, will receive their paper free. Copy must reach us by 20th of month preceding date of issue.

To Correspondents.

All Articles should reach us by 15th of the month preceding the date of issue, and advertisements by the 20th.

State with what number you want your subscription to commence.

Your Subscription will be stopped at the expiration of time paid for, unless renewed, which you should do promptly as we have but few back numbers.

Lost Numbers will be promptly replaced by us, if notified before the edition is exhausted.

Agents meaning Business, will find our cash commissions a strong incentive to work for us. Terms on application.

"Sample Copies," for canvassing purposes sent on request.

Circulars, Etc., Received.

G. W. Bercau, Fostoria, O., a 32 page catalogue of rubber stamps, etc.

A 1 page list of Butler's patent bee-escape from Butler Bee-Escape Co., Moriah, N. Y.

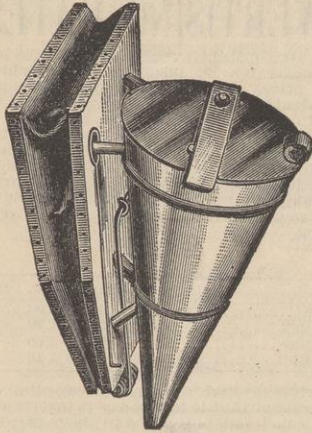
Chas. F. Muth & Son, Cincinnati, O., a 32 page list of bee-hives, extractors, glass jars, etc.

Luther Purdy, Killbuck, O., a 1 page list of bees and queens.

From A. O. Crawford, So. Weymouth, Mass., comes a neat and tasty carton for holding one-pound boxes of honey. On one side is a circular hole, 1 1/4 inches in diameter, covered with mica, around this the words "Fancy White Comb Honey." The other side also has a suitable label. It is a decided improvement over his former cartons. His adv. will be found in this No.

We have printed for D. S. Hall, Lower Cabot, Vt., a 2 page list of bee-keepers' supplies.

Any of the above circulars will be sent to anyone sending a postal to the addresses given, if they mention the BEE-HIVE.

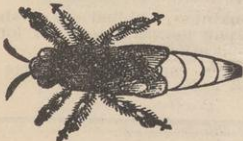


The above cut shows the Clark cold-blast smoker. Those we now have in stock are so made, that by unscrewing the cap in the valve the smoke tube can be easily cleaned. We have used one of these smokers for five or six years, and its only defect was this tube could with difficulty be kept open.

Price of smoker..... 55 cts.
By mail..... 80 cts.

We offer the Bee Hive for one year and a smoker by mail for only \$1.00; or three copies of Bee-Hive and smoker for \$1.50.

E. H. COOK, Andover, Conn.



UNTESTED QUEEN
AND

The Bee-Hive
ONE YEAR
For Only \$1.10.



GOOD GRACIOUS! THERE GOES THE QUEEN COOK SENT ME! SHE'S A BIG ONE, I TELL YOU!

G. M. Doolittle hits squarely when he says "Good Queens cost something."

These are the only kind we send out, and we guarantee them equal to any for Prolificness, Industry, docility and beauty. After June 20th, for only \$1.00, we send the above.

E. H. Cook, Andover, Conn.

Premiums for Subscribers.

—(0)—
A Little Work will Secure Them.

—(0)—
As our offer of premiums for subscribers in last number, has given our subscription list quite a boom, we make additions to the premiums so that agents can have more of a variety from which to select. Order by number.

No. 1.

For three subscriptions and \$1.50 we will send 3 copies of the Bee-Hive and A B C of Bee-Culture cloth bound.

No. 2.

A PURE
ITALIAN
QUEEN



for six subscribers at 30 cts. each. The queen will be sent July first. They will be tested as to purity. For three subscribers at 30 cts. each and 50 cts. extra we will send a queen.

No. 3.

For three subscribers at 30 cts. each, we will send a copy of "A Bird's-Eye View of Bee-Keeping." This gives, all in poetry, a brief outline of bee-keeping.

No. 4.

For two subscribers at 30 cts. each, a Rubber Name and Address stamp will be given.

No. 5.

For a club of ten subscribers at 30 cts. each we will send postpaid, a cloth bound copy of

A B C of Bee Culture,

by A. I. Root. This is a book that should be in the hands of every bee-keeper, especially beginners. Don't fail to secure this bargain.

RUBBER STAMPS



Pads and postage included.

Words changed to suit.

Like this for \$1.00.

E. H. Cook, Andover, Conn.

THE BEE-HIVE.

GIVEN AWAY!

THE AMERICAN APICULTURIST

A 32-page magazine, published monthly, by
Henry Alley, Wenham, Mass.

Terms, \$1.00 per annum. To each NEW SUBSCRIBER we will send FREE, by mail, one of our latest improved "Drone and Queen Traps," the regular price of which is 65 cents. Send for sample copy.

Make Postal Notes and P. O. Money Orders payable at the Salem, Mass., P. O. 6 ct
Mention the Bee-Hive.

A GREAT SCHEME!!

Can we sell honey to the millions? Investigate our new peculiar 5-cent package for extracted honey. Eaten from the hand without knife, spoon, or stick—as cleanly as to bite an apple. The first and only cheap successful package even invented. We also have the first **CHROMO CARD** designed especially for bee-keepers; bees, implements, etc., elegantly printed in eight colors; a big move to extend reputation. Italian Queens, splendid Foundation, Bees in Heddon Hives for sale, and all represented on our card.

Circulars and card, giving full information, free. Package of Cards, 10 cts. Sample Honey Package, filled with honey, 12 cts. Now is the time to look these things up for the coming season.

Address, **J. H. MARTIN,**
Hartford, N. Y.

Mention the Bee-Hive.

1877. SMITHS' 1887.

Wholesale & Retail Bee-Hive Factory.

Sections, Hives, Smokers, Fdn., &c.

One-and-one-half story Langstroth Hives with 10 brood frames as low as 63c.; two-story Langstroth Hives with 10 brood frames 80 cents. Price list free.

Smith & Smith, Kenton, O.

Mention the Bee-Hive.

BEEES FOR SALE!

I will sell full Colonies of Bees, Hybrids and Italians, in A. I. Root's Simplicity Hives in good condition and straight combs. These Bees are

Good Workers on Red Clover.

I guarantee Safe Arrival by Express. For particulars address
H. M. MOYER,
6121
Hill Church, Berks Co., PA.

Mention the Bee-Hive.

FOLDING BOXES.

Our Cartons for enclosing Section Honey are the best and lowest priced in the market. Made in 1 piece. With Tape Handles or without. With Mica Fronts or without. In the Flat or set up. Printed or plain. Any way to suit. We are bound to please. We have put in special Machinery for their manufacture, and are prepared to fill Orders promptly. Circulars Free. Samples 5c.

14oz. Glass Jars \$5.25 per gross, including Corks and Labels. 1 1-2 & 2 gross in a Case, Send for Catalogue.

A. O. CRAWFORD.

Box 428, South Weymouth, Mass.

Mention the Bee-Hive.

CHOICE ITALIAN

Queens and Nuclei from Imported Mothers; also from the Noted **Nulliflora Strain.**

Send for circular.

Simon P. Roddy,

12t
Mechanicstown, Fred'k Co., Md.
Mention the Bee-Hive.

BLACK'S ITALIANS

Warranted Italian queen from my improved strain of Italians in July 75 cts. Send for circular and order now, so that I can prepare for the rush. Orders filled in rotation as received.

12t
G. D. Black, Brandon, Iowa.
Mention the Bee-Hive.

SECTIONS!!

First quality white Basswood, dovetailed, or to nail, 4-pieces, 4 1/2 x 4 1/2, price \$4.50 per 1000; or 5000 for \$20. Sure to please you. Any size Section made to order, and Shipping Crates in season.

Sample Section sent for a Stamp.

F. GRANGER & SON,

Hartford Mills, Cortland Co., N. Y.

Mention the Bee-Hive.

Attention!! 100 Full size Scroll Saw Designs, for Brackets, Easels, etc. 10 cents. Sample 1c. These designs are all new.

Four Business Cards given with every order.
J. L. HYDE, Pomfret Landing, Conn.

BEE BOOKS.

We can recommend the following apicultural works as being instructive, practical and up to the times.

A B C of Bee Culture, by A. I. Root.— This is one of those books which it is a pleasure to read. It explains the various manipulations in detail, how to make your hives, crates, frames, etc. Fully illustrated.

Price with the Bee-Hive one year \$1.20.

Bee-Keepers' Guide; or Manual of the Apology, by Prof. A. J. Cook.— A valuable work on the honey bee. It describes, with numerous illustrations, the anatomical structure of the bee. Gives a description of many honey-bearing flowers, and is a thoroughly practical work.

Price with the Bee-Hive one year \$1.10.

Bee-Keepers' Handy Book, by Henry Alley.— If you intend to rear queens for your own use or to sell, you should read this work. It gives a thorough treatise upon queen-rearing, besides many hints of value to the bee-keeper. Illustrated. Price with the Bee-Hive one year \$1.20.

We do not keep these in stock, but order them sent direct from the publisher, which induces the purchaser of getting the latest edition. Sent by mail at above price.

E. H. Cook, Andover, Conn.

THE BEE-HIVE.

Apiarian Supplies

Manufactured by

W. T. FALCONER, JAMESTOWN, N. Y.
Are unsurpassed for **Quality** and fine **workmanship**. A specialty made of all styles of the **Simplicity Hive**. The "**FALCON**" **Chaff Hive** with movable upper story continues to receive the highest recommendations as regards its superior advantages for **WINTERING** and handling bees at all seasons.

DOVETAILED SECTIONS

same price as One-Piece. Also manufacturer of "**Falcon**" **Brand Foundation**.

Will pay highest Market Price for Beeswax. Dealer in a full line of **BEE-KEEPERS' SUPPLIES**.


Send for my *Illustrated Catalogue* for 1887—Free. Mention the Bee-Hive.

ITALIAN AND CYPRIAN

Queens and Bees.

I now am prepared to take orders the coming season for Italian and Cyprian Queens and Bees.

Foundation Made to Order,

both heavy and light. Send for Price List.  Now is the time to order.

J. Lingentfelter,

Montg'ry Co. AKIN, N. Y.
Mention the BEE-HIVE. 6 ct



ITALIAN Queens.

If you want to buy choice Italian Queens send for price list to

CHAS. HILL,

Mt. Healthy,
Ham. Co. Ohio.

Mention the Bee-Hive.

Do YOU take
A Newspaper or Magazine?
BEE-KEEPERS' CLUB

LIST FOR 1887,

offers them to you at Wholesale Rates

E. H. Cook, Andover, Conn.

DADANT'S FOUNDATION

is attested by hundreds of the most practical and disinterested bee-keepers to be the cleanest, brightest, quickest accepted by the bees, least apt to sag, most regular in color, evenness and neatness of any that is made. It is kept for sale by Messrs.

Taos, G. Newman & Son, Chicago, Ill.,
C. F. Muth, Cincinnati, O.,
James Heddon, Dowagiac, Mich.,
F. L. Dougherty, Indianapolis, Ind.,
Chas. H. Green, Berlin, Wis.,
Chas. Hertel, Jr., Freeburg, Ill.,
E. L. Armstrong, Jerseyville, Ill.,
Arthur Todd, Germantown, Phila., Pa.,
E. Kretchmer, Coburg, Iowa,
Elbert F. Smith, Smyrna, N. Y.,
D. A. Fuller, Cherry Valley, Ills.,
Ezra Baer, Dixon, Lee Co., Ill.,
M. J. Dickason, Hiawatha, Kans.,
Ed. R. Newcomb, Pleasant Valley, N. Y.,
J. W. Porter, Charlottesville, Va.,
J. B. Mason & Son, Mechanic Falls, Me.,
Dr. G. L. Tinker, New Philadelphia, O.,
Aspinwall & Freadwell, Barrytown, N. Y.,
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
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
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