

## The bee-hive. Vol. 3, No. 12 June, 1889

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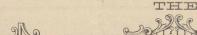
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PUBLISHED FOR AND IN THE INTEREST OF BEE-KEEPERS, BY ONE OF THEM. 

ANDOVER, CONN., JUNE, 1889.

NO. 12.

Written for the Bee-Hive.

#### A BEE'S SOLILOQUY.

BY JOHN JAMIESON.

It may be that we are a pest, And give some neighbors much unrest; Be patient, generous and kind, A gift the fiercest eye can blind.

Take Paul's advice; shun litigation, It seldom brings much mitigation: The peaceful way is always best; Keep out of law and you'll be bless'd.

When nearest neighbor wants to plow, Just tell him when the Bees allow; On chilly, cloudy, windy day, The furrows you can even lay.

Our happiness on self depends, Much more than on our warmest friends. Give grumbling John a mangled comb, To please his little wife at home.

If you can show both good and strong, That we have done a neighbor wrong, The damage soon will be redressed, By keepers wise-then let it rest.

The "scientific pleasantry," Offended the bee peasantry; No one can manufacture honey, Neither for love nor yet for money.

The truth, professors ought to tell; To encourage fraud is not well. Root's offer yet a while will stand, Till the inventor makes demand.

The orb of day will rise and set, Thro' long and unknown cycles yet; And still the claimant not appear To grab Root's thousand cheer.

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Well, after all we may be proud Our praise is sung both long and loud, And invalids join in the song, To laud the honey-making throng.

We gather honey by the tun, They send it round the world to sun, That all mankind may have a treat; To sip the Yankee's linden sweet.

(Continued next month.)

Written for the Bee-Hive.

#### Those Holes in Combs.

BY H. L. JEFFREY.

A Valuable Article From Practical Expe-

N the query of Wm. B. W. about the holes in combs, he shows fear about them. I must tell the readers of the Bee-Hive not to be scared about the holes, and how I treat them. Years ago I used to be troubled about those holes, but now I like them and work to make them quite often in this way: Whenever I find a place in the comb that I don't like, I commence by cutting in a line with the perfect worker-cells, generally it is slanting, then I cut across the top, then slant the other way, then do the same to the bottom, and quite often this hole is six sided, the same as a cell, and four to six inches across. Sometimes it is diamond shaped and sometimes three sided; but always make it large enough.

These combs are generally used in the weak swarms or where I have young queens, and they are always in these two cases built out worker comb. But if these combs are put into strong swarms with old queens they will be built out with drone comb, and for that reason I have made a practice to place some of them in such swarms and close the bees down compactly and feed plentifully where I wanted early drones; because in these new cells the queen will make no delay to deposit her eggs as often as she gets the chance to use them; therefore the beginner must keep his eyes open for what he wants the holes filled up with. If it is worker comb, keep them from strong stocks and old queens.

I am using about 150 of these mutilated combs this spring, and I shall have them all filled out nice worker combs, and about 15 lbs. of nice clean wax to furnish me the foundation to

fill at least 1,000 sections.

Most of your readers will say, "I have no foundation machine." then either get a pair of plaster moulds for 5 inch strips or sell the wax, or save it till you can get it made up.

#### Saving Wax.

I have not seen 10 lbs. of wax bought for the use of over 50 colonies in ten years. The trimmings from the combs and the little bridges and bits of wax saved every year, have furnished all the fdn. wanted in that time, and we use full sheets in the brood-frames and three-fourths of the

The bees always secrete some wax when they are working to any extent, and it can be saved without costing half its worth. If there is no other way to save it place an empty frame in the center of the brood-nest, with only a narrow starter of fdn. or comb fastened to the top-bar. On the fifth day cut out the drone comb and lay it away, and in five days more do the same again. To save this comb nicely have a box with a slanting lid and a slatted bottom about 6 inches from the lower edge, and a slot the whole length of the box about 5 inches from the bottom edge.

Into this box place these pieces of comb, having the box slanting on the ground. The small ants will clean out all the larvæ and bee-bread, and the bees will work through the slot and clean out the honey, if there is

any in the comb.

#### New Comb For Starters.

These pieces cut into strips 34 long they are all ready to swarm, and if the

and 1 inch wide make first-class starters for the pound boxes, reaching the whole length of the top of the box. I have practiced this plan with the pound boxes, both with and without separators, since 1882, and I am satisfied with it; using the boxes in the two center rows with comb starters and the two end rows with full sheets of fdn. in the crates without separators. The comb-starter boxes are not always filled out at the bottom as nice as are those with full sheets of fdn., unless another narrow starter is put at the bottom. But put 10 crates of each sort on to hives, that is, 10 crates with boxes all full of fdn., and 10 more with the comb starters in the center rows, and you will find that the 10 hives having the crates with the comb starters will be at work in their crates first, and if the comb starters are put top and bottom it is better yet, and those two center rows with comb starters will be finished before the center rows with fdn, in them. I have tried it thoroughly.

I was perplexed some at first but I am well enough satisfied with it, so I use all the new comb that I can get, and I take pains to get the comb.

I prefer the two starters, let them be either comb or fdn. I call it the Stoddard plan, because it was first practiced by Wm. G. Stoddard and shown to me in 1882, and the first Heddon crate I ever saw, practical and reversible, was shown to me in 1879 by Harvey R. Stone. It is the prettiest way to get nice 41 sections filled out that I know of. And mentioning reversing sections makes me want to av a few words about

#### Reversing The Brood-Frames.

There is nothing that will send your bees into the sections better than reversing the brood nest, and it will quite often entirely upset swarming When it does not upset swarming entirely, it is an advantage.

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Build up your colony till Min

they have two inches of honey under the top-bar it is all the better. Now reverse every frame, destroy all cells, place the two combs with the most eggs and larvæ next the sides of your hive, and the two with the most honey in the center; put on the skeleton honey-board and your crate, and I have yet to see the colony that don't take to the sections in good shape. it and see. And if the colony swarms again it will be with combs solid with brood and a great deal stronger swarm.

Second. Don't reverse a frame just as the brood is beginning to hatch near the bottom-bar, or you may nearly every time get the honey put there in place of brood; but reverse when there are four or five rows of eggs or lave next the bottom-bar, if you can.

I first saw the reversing of the whole brood-chamber practically used by Robt. Blacks, of Black Hollow, in 1883, on some stubborn colonies, and I have used in ever since as a common practice.

H. L. Jeffrey.

New Milford, Conn.

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For the Month Ending May 15, 1889.

IRST the bees; they are building i up very strong for the harvest. All the old bees are gone and robbing is over until after the basswood flow. They have got a little loney along back, but not enough to supply their increasing daily needs, will his warm weather is making it hot for them, and most of us will wish some sort of shade or protection from the broiling sun. Chaff hives, painttill Mwhite, do not get as hot as those if there the bees are only separated

from the almost blistered paint by a thin board.

Various trees are also useful for shade, for the hives. Were it not for the swarming of the bees one would desire the stately elm or wide spreading maple, but taking into consideration the fact that we must use the trees more or less as an alighting place for swarms, lower trees are desirable. Cherry, plum, and other fruit-trees do duty in our yard.

Henry Alley's new method for rearing queens is at hand, in pamphlet form. It is to simply crowd the bees to the swarming fever by feeding, and if necessary, by the addition of bees in the brood form. When the cells are nearly ready to seal they are given to queenless colonies to finish. best of queens should certainly be obtained by this method.

The British Bee Journal is publishing portraits of the foremost beekeepers of England, the first being that of Mr. C. N. Abbott, the first pioneer of the movable frame system in that country.

The following definition of "Carniolan Bees" is from Mr. Cowan, editor of the above mentioned paper. "A race of bees found in Carniola, a small district in South-western Aus-They are black bees with bands of white hairs surrounding the abdomen, are remarkable for gentle disposition, prolific, hardy, good honeygatherers, build extremely white comb, and are great swarmers."

A new method of preventing swarming is given by a correspondent of the Canadian Honey-Producer. It is simply to exchange places with colonies daily, from early spring until after the honey-flow. This is done without labor, by a sort of cart-wheel arrange-

"Natural swarming is, therefore, in

my opinion, the correct way to get increase, if that increase is expected to put cash into the exchequer of the owner, by gathering honey."-Eugene Secor in Am. Api.

"I have used several hives of the Huber type—closed end bars—and I believe, after all, that, for the general bee-keeper the regular Langstroth hive is yet the best,"---Prof. Cook.

The new Japanese Buckwheat appears to be about to revolutionize buckwheat culture, Sow a little and distribute the seed among your neighbors next spring.

In a private letter the gentleman known in Gleanings as "Rambler," says: "Out of 102 Heddon hives I have lost and doubled down 6 colonies, leaving 96, the majority full of bees." In a spirit of justice we are glad to give the above.

Once more the seasons have rolled around and the critical time to the apiarian has come, soon is a good or a poor season to be recorded for 1889, and the bee-man's purse to feel the influence of his past labor and care, or neglect and errors. Wishing success to the diligent and giving a warning to the lazy, we are "entered for the race."

"Bees work for man; and yet they never bruise "Their master's flower, but leave it, having done

"As fair as ever, and as fit for use:

"So both the flower doth stay and honey run."

APIS AMERICANA.

#### A Vermont Bee-Keeper.

An Interesting Description of Mr. Manum's Apiarles and the Bristol Hive.

**P**E extract the following article from the American Agriculturist, knowing that it will be of general interest. It was written by Mr. Cushman of R. I.—

section, and probably the one having the largest number of colonies in New England, is A. E. Manum. He commenced in 1870 with two colonies, and although like other bee-keepers he soon found that a good season was usually followed by a poor one, his success led him to extend the business, and in the spring of 1885 he had in five different yards 470 colonies.

That season was an unusual one, and he obtained from them 19 tons of comb-honey and 3 tons of extracted honey, and an increase in bees, making 850 colonies in the fall. large crop was nearly all gathered in twelve days, and one of the best colonies on scales at Yard No. 2, while working on basswood, gathered in one day 33 pounds and in four days 124 pounds.\* The largest yield from one hive was 228 pounds of comb-honey. His greatest yield in 1883 was 312 pounds of comb-honey from the bees in one hive.

As an offset to this and the previous good years, each season since 1885 has been a poor one, and his bees have not paid expenses. With a few exceptions in favored localities, beekeepers every where have fared the same, although three such poor seasons in succession are unparalleled in the history of the industry in this country.

Mr. Manum's out-apiaries are from 2 to 16 miles from the home yard The long rows of symmetrical and neatly painted hives, covering a hillside or appearing among the trees of an orchard, arrest attention and excite interest.

The Bristol Hive.

At the start Mr. Manum tried all the different hives and studied and experimented to get the best practical By combining, modifying and inventing new features he turned out that which met his ideas and which with a system of management suited

The most extensive apiarist in this see March number of the Bee-Hive, page 10L for honey yield of this colony.—Ed.

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Hives

and many others. The hive is doublewalled and consists of a stand, inner hive or brood-chamber and an outer case. The entrance is through the the stand underneath the brood-chamber and cannot be clogged by snow, is protected from rain, and by means of a slide can be graduated from 2 ins. long by 3 of an inch wide in winter to from 14 ins. long by 2 ins. wide—the full summer width when the slide is removed.

The outer case is movable and is in three separate sections. The roof is of clapboards. In each gable is a 2inch auger hole for ventilation. is protected by a wire cloth funnel projecting outward, which allows the bees to leave one at a time, but not to enter, This is an important proviso when bees are hastily shut in or when surplus honey is removed.



BRISTOL HIVE.

The 3-in. space between the walls is led with chaff or sawdust, which is allowed to remain winter and summer. When damp, it can be readily replacd. Having so many loose parts, the live can be moved without heavy liftng, and when properly packed is sufwinters. The hive-stands rest on two onies which is so important.

to it is now used in all his apiaries moved unless carried away from the vard.

> The brood-chamber is covered by a board, when the sections for honey are not in place, and contains 12 hanging frames, 12 ins. long by  $9\frac{1}{2}$  inches deep. The surplus arrangement consists of cases, at one end of which are a follower and wood screw, by which the sections are tightly clamped together. Each section is supplied with with a full sheet of foundation, and between each row are placed thin wood separators to insure perfect combs.

> Mr. Manum was probably the first to make a white poplar dovetailed section, which is now so much used. Previous to this they were of pine, and made to nail. The section, put together with glue, is not only the strongest but the neatest section in Two of the Bristol clamps cover the brood-chamber and can be tiered up as high as desired. When filled with finished combs, the cases are disconnected from the brood-chamber, and before they are removed to the honey-house the bees find their way out at the bee-escape in the gable. cord and a simple device allows the hive cover to be tipped back instead of having to lift them off bodily when opened.

#### Manner of Working the Apiaries.

The hives are five feet from each other in rows twelve feet apart. prevent upsetting by heavy storms in winter, a large cord is thrown across the roof and fastened to a stake driven in the ground on each side. During the winter every thing needed in the summer campaign is prepared ready to be quickly supplied to the different yards by the teams which are then constantly on the road,

In the spring at certain intervals Mr. Manum and his assistants spend a day wient protection from New England in each apiary giving that aid to collengths of joist to keep them off the rounds are made more and more often gound, and are set perfectly level. until the swarming season is about to lives once located are not afterward commence, when one competent person is placed in charge and is in constant attendance for six or eight weeks, or until the honey-season is over.

Board is usually obtained at the farm house near which the yard is located, and the help are continually employed in hiving swarms, putting on or taking off boxes and in attending to other necessary details, As experienced men are not always to be had, many knowing nothing of the business must be taught, and as they usually commence for themselves as soon as really competent, this instruction must be given again and again, After a few weeks' instruction some are able to do nicely the remainder of the season with occasional looking after.

Women are also employed, and one who did not know a queen from a drone when she commenced, took entire charge of 116 colonies the second season. At each ariary there is a building containing a honey-room where clamps of honey are temporarily stored, and a work room where fixtures not in use are also housed,

In each vard one hive stands on scales, of which a close watch is kept after the clover and basswood blos-On the front of every soms open. hive in plain black figures is the colony's number, while inside is a record of the colony, its origin, age of queen, date of each examination that season and their condition when examined. This is written in abbreviated characters on a piece of section or smooth board and laid on the packing. apiarist also keeps in a book a list of the colonies casting swarms, and of those requiring special attention at a certain time.

The wings of all queens are clipped to prevent their going off with the swarms. When the latter attempt to leave, they are caught by an arrangement consisting of a wire cloth cage fastened to a pole. It is made to stand any where by two legs, which fold up when not in use. A sufficient number of these are always at hand. Honey" and "Light Weight," accord-

When a swarm issues, the queen is caught on the ground near the hive and placed in the cage of the catcher. which is stood or held in the midst of or near the flying swarm, and the bees soon settle upon it. They are then left, and attention is given to the others, which usually issue at about the same time. If the swarm has gone some distance, or clustered in the top of a tall tree, it will soon return, as it is without a queen. So the catcher containing their queen is stood in front of the hive from which they came, and as they return they find her and cluster upon it. To make this more certain, the entrance of the old hive is covered with a cloth. This plan differs from that of most beekeepers and enables Mr. Manum to quickly handle many swarms. In hiving, when time is more plenty, about a third of each swarm is shaken back in front of the old hive and the balance of two or three swarms, with one queen, is hived in a new hive. this makes a powerful working colony in the new hive, abundant room in sections is immediately given.

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A close watch is kept of the apiary, and more storage room is added as fast as used to advantage, and the filled clamps are removed as soon as completely sealed. A large crop can be cut off from communication with the brood-chamber in a short time, and when free from bees is carried to the honey-room and afterward carted to It is then the central honey-house. scraped clean of propolis by women and girls, and after being graded is stored in the honey-room to ripen.

In the fall, wood sides of white poplar in-tead of glass are fastened to each section, and they are shipped to market in white poplar crates holding two 1 lb. sections. Sections full of nice white comb, those full of darker combs and those light in weight, are each crated separately and the crates are marked "Green Mountain," "Comb

ing to contents. A few of the very best and most perfect are selected from the first quality and go as the "Snow Flake" brand,

As most of the crop is secured as surplus and but little is gathered after its removal, that remaining below is no more than the bees need during the season. Therefore, to keep them alive until spring, each colony must in early fall have its ration of sugar syrup. This season 28 barrels of the best granulated sugar were required to insure sufficient winter food. For feeders, maple syrup cans with small holes punched in their bottoms are used. Three short legs of tin raise them enough to give the bees room to get at the holes. These cans are filled with syrup and set over a hole in the cover of the hive, and are renewed until the proper amount of food is consumed.

After the honey-season, instead of a constant attendant at the out-yards, frequent visits are made, as in spring, and are continued until the bees are snug for winter. Then an occasional trip is made on a warm day when the bees can fly, to see that all entrances are clear.

Mr. Manum has, at present, 700 colonies in eight different yards. The number in each is limited to 125 in the fall. The colonies in excess of this number are either sold or carried to a new location. For this work a double and a single team are used.

By the use of rocks which hold a second tier, the former takes fifty colmes and the latter twenty-three colomes. Before loading, the frames are mmovably fixed and a sheet of musin is tacked over the brood-chamber o give air, while in very warm weathera rim covered with wire cloth is necessary to their safety. Mr. Manm's bees are mostly Italians, although In some apiaries there is a trace of lack and Holy Land blood. He is about to test a few Carniolan queens.

from the best Italian colonies, which are selected out of this large number as possessing unusual excellences. saw many fine large queens a shade darker than the average Italians, having very plump and thick-set bodies. In each yard, distributed among the regular hives, were many nucleus colonies—the temporary quarters of surplus queens. Mr. Manum has planted honey-producing crops on a limited scale, but is not yet certain that they can be made to pay.

Written for the Bee-Hive.

## Apiary Work For June.

BY CHAS. H. SMITH.

Some Practical Thoughts for Beginners .-Dividing.

**VINE** is the month of months for a beginner to learn about bees. It is now that he can see for himself the truth of what he may have read during the past winter. The pictures and descriptions of the queen, worker and drone cells, and the great differences existing between them, have excited his curiosity greatly; but now a look into his strongest swarm will, without doubt, show him the whole thing.

The bee, from the egg along through its rapidly changing stages to the moment that it crawls forth from its cell —a perfect bee— is a continual wonder, and I believe never fails to excite the admiration of the bee-keeper. Today I lifted out a frame of worker comb, straight and even as a board, and literally filled with larvæ about four days old. Holding the frame in such a position that the sun shone into the cells, the sight was pretty indeed. Nearly a thousand plump coils of white, corrugated ivory, separated from each other by a thin, pale brown partition of wax—who could help but admire it? All that was lacking was the presence of some brother bee-keeper who would look over my shoulder The working queens are reared at the picture and exclaim: "What a sight!" Just now we want our queens to be doing their best. Every frame should be filled with brood. If opening a hive, you find all the center combs thus filled, whereas the outer frames contain no eggs or brood, just spread those in the center placing the other combs there, for it is of prime importance that each colony should have all the eggs they can care for,

When your honey-flow really commences—be it now or next month you want every swarm strong; by this I mean that the bees should be crowded for want of room, as herein lies the secret of getting box honey. It is a very simple matter, this making bees strong by crowding their quarters: Suppose you were to place your strongest swarm in a hive having just double the capacity of the one they are now occupying, in looking over this swarm now on 20 combs and seeming able to cover only 10 or 12 of them, would you call them strong? No. On the other hand select a fair swarm only, covering, say 5 frames yet having 10 frames in the hive. Now should you remove 6 frames, crowding the bees on to 4 instead of 5 combs, what would be the result? They would want to swarm before long, and you would call this a strong swarm.

Now before putting boxes on any swarm see to it that the bees are strong-strong in the way I have just described. If you do this you almost compel the bees to go into the sections at the start, and this is very desirable. You will needs exercise some judgment in giving these boxes; giving but very few to those small strong swarms and more to those large strong swarms. Yet it might be well for me to add, that there is no danger of giving too few boxes, even to your strongest colonies, as more can be added as the swarm seems inclined to work in them

I should not advise the novice to attempt making any artificial swarms this season; it might teach him some-

thing, but I fear the learning would cost high. I know, the books tell all about how it can be done; but after seeing so many woe-begone looking swarms trying to pluck up enthusiasm enough to gather a little honey, I have come to the conclusion that I don't want 'em! I believe that for work there is nothing equal to a good, rousing swarm of bees which have come How they will work! off naturally.

I have seen 80 swarms made from 13 fair colonies, 67 of these were to raise their own queens, 13 of course having queens already. This done in June, and the fall found 80 very poor swarms, and spring found 80 hives containing combs and dead bees. Do you want to try it?

Yet this man said he saw in the paper where a bee-keeper increased his bees from one swarm to six and secured 90 lbs. of honey, and that he didn't see why he should not do just II as well, in fact he would be satisfied a with the increase, not minding the Be honey. Well, I reckon he didn't "mind Its the honey."

I wish I knew just how many be Pe ginners in modern bee-culture had tried this dividing business and with W what success. Can't a few of them ed just tell the BEE-HIVE in a few lines Th how it worked with them? I believe it would interest us all, and perhaps see be a good sign-board to direct the new N comers this spring.

Pittsfield, Mass. W.

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[As friend Smith suggests, we hope sho any of our readers who have practiced two dividing will tell us how they succeed Fr. ed-or if they did not succeed then lan tell about that.

## Swarms Reported.

The Nutmeg State Leads the Van.

HE following early swarms have sha been reported:-- I captured my hor first swarm of Italian bees at but 1 p. m. Wednesday, May 8th man they swarmed on a small peach-tree swe but 2 feet from the ground—Geo. 8 Pratt, Bridgeport, Ct.

My first swarm issued May 9th. Bees are in prime condition, and the prospects look fair for a good crop of honey—Wm. Bitzer, Wheeling, W. Va.

I have had four swarms come out. Ihad one come out last Thursday, May 9th, also one Friday, the 10th—both of them skipped me. One of them didn't alight at all, the other hung about five minutes. I had got every thing all ready to hive them when they took wing and went to the woods. I had two come out Sunday, May 12, have them hived all right—L. J. Waldo, Merrow, Ct.

We had our first swarm yesterday, May 10th; good for Northern Conn. How many ahead?—R. Stratton & Son, Hazardville, Ct.

My first swarm of bees came out May 14th, the queen being Carniolan, a daughter of imported from Frank Benton; the bees are yellow, showing Italian blood. I think this early for Western Penn.—Samuel Heath, Tidal, Penn,

I had two large swarms May 23d. White clover in full bloom; commenced to bloom about May 4th.—F. S. Thorrington, Chillicothe, Mo.

[By comparing the above with last season, we find that Harker Bros., of N. J., reported a swarm May 10th, A. N. Griswold, May 22, 23, and L. J. Waldo the 25, both of Conn. shows the present season to be nearly two weeks in advance of last year. Friend Heath's remarks about Carnioan bees leads us to wonder if they swarm as early as the Italians. As greater prolificness is claimed for them they ought to cast earlier swarms. Our first swarm came out the 31st—the last day of May. shall have to report taking off new honey—one box of apple blossom! but whew! how quick "ye editor" made a shrinkage in that pile(?) of sweets—and longed for more.

early hives possessed is shown by the following, relating to the "Gravenhurst Hive," which was made of straw, the frames being "removed from the bottom, so that, in order to open one of these hives, it requires the strength of a strong man to invert it, especially if it is full of honey. The Gravenhurst hive is not intended for ladies." No, we should think not! Just imagine what a job it would be to "roll over" 100 of those hives and remove the frames for examination!

Messrs. Dadants prefer the "Hanging Quinby" frame (size  $18\frac{1}{2}$ x $11\frac{1}{4}$ ), and after mentioning the principal frames in use say: "It is evident that profit can be derived from bee-culture with almost any style of frame; but it is certain also, that, in every pursuit, some conditions produce better effects than others, under the same circumstances." While they prefer the Quinby frame as giving them better results in wintering and in honey-production, they do not advise the beekeeper who already has Langstroth to change to the Quinby; but they think beginners who winter out-door should use the latter. Bee-keepers who have compared small or contracted hives with those of larger capacity will see the force of the following: "As the harvest of honey is always in proportion to the number of bees in the hive, and as a large colony requires no more labor from the apiarist than a small one, the hive should afford the queen sufficient space to deposit all the eggs which she is able to lay in 21 days.

(Continued next month.)

#### E-HIVE.

R. Stratton & Son, Hazardville, Ct., manufacture the best crate for protecting the outside of sections that we have seen. One side is made removable to faciliate the taking off of completed boxes of honey.

Don't forget to read all the advertisements and Special Notices—it will pay you.

"Scientific Queen-Rearing" is the name of a new book having 160 pages, and written by Mr. G. M. Doolittle. It is published by Messrs. T. G. Newman & Son, 925 West Madison St., Chicago, Ills. It is well printed, contains numerous engravings and is sold for \$1.00. A review will be given in next issue.

Though apple bloom has been very abundant in this section and many of the colonies in good strength, but little honey has been stored in surplus boxes. It was several days after a part of the trees were in full bloom before the bees showed any enthusiasm in gathering the nectar, and then it came in very slowly.

Some bee-keepers allow the bees to rear a great lot of drone brood and then shave their heads off (we mean the drones' heads) to prevent their hatching. This is not wisdom or economy. Either remove the drone comb next to outside of hive for the bees to store honey in, or take it wholly away giving worker comb instead.

We wonder if the average bee-keeper has as much dread of fastening starters into the sections as we have had? To us it has always been a disagreeable job, and when possible was either put off as long as we could or we induced the novice to try it, as suring him that it was not a very difficult job (?) We have tried the Parker machine and other methods, none

Subscription Price, 25 cents Per Year in Advance.

#### Editorial Ink Drops.

All subscriptions will be stopped when the time paid for expires (see notice of same stamped on wrapper) unless renewed before.

Who reports the first new honey?

One of England's well-known beekeepers, Rev. Geo. Raynor, died May 3d.

Dadant & Son have advanced the price of foundation 5 cents a pound, owing to scarcity of wax.

Mr. Jeffrey's advice to use drawn out combs in sections, is right to the point and in the line of practical economy.

A writer in British B. J. pleads for the much abused drone. How would it do for some philanthropic individual to start a Drone Breeders' Journal?

Natural swarming is gaining favor with most apiarists. Dividing has its uses and advantages, but where honey is the object natural swarming is much preferable.

Mr. Doolittle in Am. B. J. gives the temperature of a colony at this season of the year at from 92° to 98°. This was ascertained with a self registering thermometer and numerous trials in different colonies.

of which were satisfactory. Well, the other day we had quite a lot of boxes requiring starters, and this 'time the novice wanted us (retribution) to put them in, so at it we had to go, and this is the way it was done: Placing our oil stove on the work bench we then hunted up the cover of a seamless tin pail, which would hold 1/4 in. in depth of melted wax, and placed over the stove, turning down the flame after the wax had melted so that it would just keep liquid. The fdn, was then cut into squares of 41 inches, and then cut across from corner to corner in the shape of an "x," each square making four 3-cornered starters. About 25 sections were then placed with the grooves up, close to the stove. Now by taking a starter, dipping one edge in the melted wax and quickly setting it on the center of the section, lengthwise, it became a fixture. When a number was thus prepared the sections were then folded up. By havmg the wax of the right temperature it is but little more than fun to put in starters; and the best part of it is that when once in place they do not drop off.

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E. H. COOK, Andover, Conn.

### A Speical Notices. 1/4

Under this heading advertisements of 35 words to be inserted four times for only 25 cents.

(HOICE Italian Queens in May, \$1; June. July, 5 cents each. Send for prices on Nuclei. besty the pound, Comb foundation, Bee-keepers Supplies. John Nebel & Son, High Hill, Montg'y Co., Mo.

R. B. LEAHY & CO., Higginsville, Mo., at pres-ent, are running the largest Supply Factory st of the Mississippi. They are turning out gloads of goods annually. Bee-keepers, by all lans, should get their Catalogue.

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BEE-KEEPERS, it will pay you to send for my price-list. No. 1 V-groove sections, \$8.00 per M. Best foundation, thick, 40 cts. thin, 45 cts. 9 W. D. Soper, box 1473, Jackson, Mich.

TALIAN Queens, 1889. Select tested, Apr., \$3; May, \$2.50; June, \$2; July to Nov., \$1.50. Warranted purely mated, \$1; six for \$5. Send for circular. Money order office Nicholasville. 9 J. T. Wilson, Little Hickman, Jess. Co., Ky.

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## TTALIAN QUEENS.

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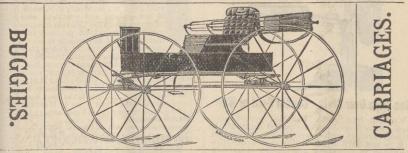


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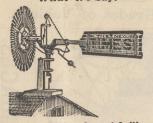
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