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THE NATIONAL BEE JOURNAL

AND MAGAZINE.

VOL. IV.]

INDIANAPOLIS, AUGUST, 1873.

[No. 7.

NORTHERN DEPARTMENT

"What of the Night."

"What of the night" in apiculture? Are we to continue rearing bees in the summer, but to lose them in the winter and spring, or have reason to hope for the success of former years, when stocks that were failure.

that in apiculture as in all other much of the down. pursuits, the old saying is equally true, But I presume that the period of lar to mine.

less than a pint of dead bees to the whole ten stocks. In the season of '71 I increased my colonies, by artificial divisions, from fifteen in the spring to seventy in the fall, besides taking from them in the months of May and June, over six hundred pounds of extracted honey. During the winter of '71 and '72 this' good in the fall came out good in number dwindled down to twenty. the spring? If the future is to be From that twenty I again went up as the last two winters, then apicul- last season to about seventy, besides ture may be set down as a grand taking a considerable amount of honey, and raising and sending out But I am not prepared to believe a large number of queens. Last that this, the most fascinating of all fall I went into winter quarters with branches of rural economy, and one fifty-five, came out in March with that once was quite profitable, is to over forty, and now have only fifbe a failure. Experience and obser- teen with fertile queens. This I vation have demonstrated to me, call up and down, with a little too

"no lane so long that has no turn." time embraced in this narrative, has I have had enough "ups and downs" been frought with greater fatality to in the bee business to satisfy me on the bee than any other known in this point, and I presume the ex- the history of apiculture. It seems perience of hundreds has been simi- to me we have about reached the "turn" in the "lane." For some In the winter of '68 and '69 I had mysterious reason Providence pereight strong stocks, and lost them mits maladies of various kinds to all. In the fall of '70 I put ten spread over the land, but none of stocks in my cellar, and the ensuing them prevail for any great length spring brought them all out, with of time. The Asiatic cholera or the loss of only five and one half small pox may rage awhile among pounds of honey to the hive, and of mankind, but the fury of the plague

is soon spent and usual healthfulness returns; the "cholera" among the fowls and the hogs, the murrianrian with the cattle, and the "epizooty" with the horses, may cut down the former flocks and heards for a time, but they in turn pass off, and the flocks and heards resume their accustomed life and vigor. Why may we not, with equal reason, look for the maladies that carry off our bees, to pass away, and for their former health and vigor to return.

We can not look for uninterrupted success in apiculture, any more than in any other business; nor should we in this, more than in any other pursuit, for continuous failure. We should be prepared for either success or failure. Success should give us renewed confidence in apiculture; failure should but nerve us to put forth greater efforts to make apiculture a success. If we fail this season, we should try again; the next season may be the most prosperous and successful. The man that has not nerve to stand up against occasional adversity will fail in any pursuit in life.

I drop these random thoughts for the benefit of novices in apiculture; the veterans do not need such encouragement. My advice to all that have lost heavily during the last two winters, is to "pick your flints and try again." M. C. HESTER.

Charlestown, Ind.

The above article should have been printed two months ago, it was omitted, first for want of space, and overlooked when our last number went to press.

Facts vs. Theories.

In my previous articles, which appeared in the NATIONAL BEE JOURNAL under the heading of "My Failures," I endeavored to state what the facts in the case were, although in my efforts at success I had followed the fine theories of older bee keepers to the letter, but in each instance it resulted in failure, nevertheless I am determined to give bee keeping another trial.

In looking over the back numbers of the Journal, I found that our leading apiarians agree that to winter bees safely, they must not have too much honey, as the bees suffer more with the cold. They also say that there must be empty comb in the center of the hive for the bees to cluster on, and to have strong colonies to gather honey, we must feed early in spring, to induce breeding, and to secure early drones place drone comb in the center of the hive, and make the queen lay by feeding.

On the point of ventilation there is some difference of opinion. One wants upward, another wants lower ventilation. Now all this is sound theory, and looks on paper as though success were certain, but facts are stubborn things. I propose to state some facts in regard to these points, that are in opposition to these theories. Last fall I examined my bees and made a record of their condition, those that were marked full of honey, wintered safely on their summer stands undisturbed through the season.

Some strong colonies and some weak ones, were put in a warm dry cellar. I began feeding in February,

a hive made from an old hollow tree. The cause can not be that the blacks are earlier breeders, for my Italians that were not fed, had drones as early as the blacks. Then I placed empty combs in the center, and put the full ones on each side. the bees always carried the honey over to the center again. Now I conclude the facts are just this: First, if you want early drones, or early workers, you must have a large supply of honey in the hive in the fall, winter feeding will not do. My neighbor, who had his bees in an old log four feet long and one foot and a half across the hollow. had no trouble in getting his bees to breed early, for they had 150 lbs. of honey, and did not fear that the feed would fail, neither did the "cold wall of honey cause them to freeze to death." Next, if the bees needed empty comb in the center of the hive, they would not remove the honey from the outside to the center. Now one word on ventilation. I

find that when bees are left to themselves, they always ventilated the hive by "hanging out" in warm weather. I follow nature and open a ventilator in the bottom of the hive, covered with wire cloth, they will not wax this, but any opening

and kept it up until the middle of they use more propolis and close May. Those in the cellar were set every crack, top and bottom, except out of doors once or twice during a the entrance. I also notice that the thaw, and placed on their summer bees in the middle of the cluster, stands as soon as spring opened. with their heads in the cells, will One strong colony I gave drone live, while those at the edge of the comb, trying to have Italian drones cluster, that receive the benefit of before the blacks appeared, but no the ventilation die. Should we not drone eggs were deposited until follow the teachings of their inafter black drones were flying from stinct, and close all ventilation in winter except the entrance?

A Letter from Ohio.

Thinking it might be interesting to the readers of the Journal to hear how I have been managing bees the present season, I will say that I have bought a large number of colonies of black bees, of various bee keepers, mostly with the privilege of their remaining where they were until fall, most of those colonies I have increased to three colonies in the following manner Nearly all the bees bought were in common box hives; I drummed out enough bees, with the old black queen, to make a colony, and let them go in another hive full of comb, and let this hive take the place of the old one; set the old one on a different stand a little to one side; I then immediately introduced an Italian queen in the old colony as follows: I turned the hive bottom up, and thoroughly drenched the remaining bees and combs with peppermint water, by taking it in my mouth and blowing it on the bees and combs, also on the queen, then I let the queen go in, set the hive right side up on the stand. Two weeks after I went near the top they will stop up. I through the same operation with the find as cool weather approaches, old hive again, draining out the Italian queen with a sufficient quantity of en it a little, add ten or fifteen drops bees to make another colony, and of peppermint essence, sprinkle let it take the place of the old one, well from the top of the hive, on as before giving the old colony and between the frames, after a few another Italian queen. In this way moments wet the queen with the I increased each colony to three same liquid and let her go in at the colonies. Now in a few days I shall go the rounds again, and as many of the first colonies, containing black queens, as have gathered stores sufficient to winter, I will drum out the old black queens with bees and make another colony with the black queen, giving the old hive an Italian queen If this last colony, having the black queen, gathers sufficient stores to winter, I shall, later in the season, give them an Italian queen, in this way I will increase one colony to four. In the above way of managing I have a laying queen in all the hives all the time. Bees have done finely here this season so far.

AARON BENEDICT.

Ohio.

P. S.—Owing to the good season for raising queens, I will soon have my orders for queens filled. I have had to use a large number of queens in making colonies. I consider a fertile queen worth five dollars, and almost indispensable, as a young fertile queen will lay nearly enough eggs in the old colony, in three weeks, to make another colony: the old colony in natural swarming is without a laying queen about that length of time, hence the advant-A. B. age.

An Easy Way to Introduce a Queen.

hive you intend to Italianize, leave full stocks of bees and over one it queenless twenty-four hours at hundred nuecli hives. I have acleast, take a cupfull of water, sweet- complished literally nothing, and

entrance. I have practiced this method for years and never lost a queen. KATE.

Another Way to Introduce a Queen.

First capture and remove the old queen from the hive, and leave the colony queenless some six or eight hours, then take the cage containing the queen you wish to introduce and insert the cage between the frames where the queen can reach the honey, and let her remain there twenty-four hours, at the end of this time take her out, and if you find the bees will leave their comb readily you can then liberate your queen, but should the bees adhere to the comb and appear to be unwilling to leave it, put the cage back and let it remain a few hours longer and then liberate your queen.

H. B.

Letter from E. M. Johnson.

MRS. ATKINSON:-Yours of July 21st at hand. Will give you a little statement of the operations of the last four weeks, which I think will excuse somewhat the delay in sending queens. 1 wrote you about a month ago that queen weather had come at last, but am sorry to say that it did not stay, and I have devoted my whole time for nearly three months, with an assistant part Take the black queen from the of the time, and with about sixty was about to think that I could not I shall take great interest herefine large cells sealed now, and I subscribers, I have ent. In haste, E. M. Johnson.

Mentor, O. July 24, 1873.

Good Advice.

In looking over the NATIONAL BEE JOURNAL, of December, 1872, I found on page 530 the following good advice: "Put your hand in your pocket and send in your renewal," which I shall cheerfully do by inclosing to you two dollars, the price of subscription for another year. I also take pleasure in being able to send you the following names to your Journal, with the eash accompanying each, for one year's subscription, which names you will please pass to my credit, and as you advertise, will entitle me to one of your pure Italian queens. As there are no Italians in this part of the country, I desire to try them.

raise any queens this summer. For after in trying to increase the subsome reason not known to me, the scription of your Journal here. bees refused to build queen cells un- My attention was first drawn to til this week. I fixed up swarm your valuable paper in the spring after swarm with brood from the of 1872, by Mr. A. J. Hoover, who choicest queens, but only got from brought the first light of improved one to three cells per hive, and bee keeping into this section of the sometimes they would even nurse country, since which time I have up and seal over every egg and not been a subscriber to your work, start a single cell. But this week and with the assistance of the they are doing much better, some of JOURNAL and the premium work them having as high as twenty-five on bee culture you send to subsucceeded now think that I can get all orders admirably in the lower branches filled very soon. I am as well of apiculture - partiucularly artiaware it don't pay as anybody can ficial swarming, a method enbe, but can't help it after all. In tirely new and astonishing to the the past ten years I think there has old brimstone bee keepers here. We not been so bad a season for raising have not the best honey district queens as the present, I almost here, although it pays to keep a few envy you your privilege of going to swarms of bees, and keep them Florida, I would like very much to right. Send queen to my address, go there myself, but can not at pres- as below. I remain, gentlemen, respectfully your most obedient servant. EDWARD RIEBSMEN.

Wilkes Barre, Pa., July 19, 1873. Reader, do thou likewise, send for the NATIONAL BEE JOURNAL, and get as many subscribers as you can. For every three subscribers you get one pure Italian queen.

LOOK OUT FOR TOADS .- I have seen them hop along among the hives until they got in front of them. and pick up several bees that were on the ground, and if the alighting board be near the ground they will eat up the bees as fast as they alight.

IF you would relish your food, labor for it; if you would enjoy clothes, pay for them before you wearthem; if you wuold sleep soundly, subscribe and pay for the NATION-AL BEE JOURNAL.

SOUTHERN DEPARTMENT.

Experience of a Southern Novice.

Permit me, through your valuable Journal, to give the experience of a Southern novice. I am called, among our home folks, a youth of eighteen, favored with good habits and a desire for scientific bee culture, thanks to my most excellent uncle and guardian, who on my last birth-day presented me with eighteen colonies of black bees, one colony for each year of my life, saying as he did so, they will keep you pleasantly employed while at home with us this summer, and Sam will assist in taking care of them. Sam is an old family servant and uncle's right hand man among the beeshaving no less than one hundred and fifty stocks, and sometimes as high as two hundred and fifty. After presenting thanks for the gift, I thought it rather queer that bees should keep me employed all summer, when everybody knows that bees take care of themselves. But I suddenly recollected what I had seen at the Memphis Exposition last fall, the display and interest in the bee department bee-ing of considerable importance. So on the spur of the moment I addressed Mr. Atkinson-whom I met with there-he, in return, sent me a copy of your interesting JOURNAL, which I read with profit as you shall see; also terms for bee hive, extractor, etc. The Journal proved to be just what I wanted, I have learned many what the bees and I wanted, you useful lessons from time to time, and see. I believe that I forgot to menthe reliable little work that accom- tion that uncle kept his bees in the panies it on subscription, and think old square box or gum hive, having every one who keep bees must find no knowledge of the modern style

it of as much importance as a good hive, and I would not keep bees without a movable comb hive of some kind.

Our sample of the Queen arrived. and Sam, who is something of a carpenter, concluded he would try his hand at making some. This was on Feb. 10th, and in a short time thereafter I had a hand in the job. and had twenty-five of as fine well made hives as you could wish for. Uncle looked on smiling his approval, knowing that in bee keeping as in other branches of industry, rapid progress was being made. When the hives were done I watched my bees very closely, a deeper interest for the little fellows growing day by day. In the January number I learned through an article written by S. W. Cole, of this State, how to feed my bees artificial pollen, feeding them rye flour as described. worked as only bees can, busy, busy, ever busy carrying in the flour. One fine day I thought to try my hand at transferring, so, calling Sam to my assistance, I told him what I was going to do, yet warning him that he must do just what I told him, to this he replied yes, Mass Jack, but looked as if he would rather be excused, and would, if need be, prepare to run. Uncle and Sam had some earnest conversation in regard to my proceedings, but although they both agreed that the boy was beside himself, as uncle termed it, concluded it would be best to allow me my own way. Just and money than was necessary on my birth-day present, but as usual kept his opinion to himself, so I was left to go my own gait, as they say up North. With smoke in hand, I sallied forth to conquer or be conquered, but of the fate decreed I came off victorious. After driving out the bees and transferwent along. Now when this was account of its bees. done didn't I breathe free, I think Immense quantities of wax are done, next arranging for surplus production. honev.

gathering.

one time about my own. Sam says called "winged ants." These are

of hives or their management. I Massa John, Massa Jack has done reckon the old gentleman began to charmed your bees to fly into his think that I was spending more time bee gums, and dey carries all de honey in dar too.

Gentlemen, I am yours, most truly, MIDDLE TENNESSEE.

Mexican Bees.

The bees of Mexico, like its climate, physical features, and all its forms of life, are closely allied to those of South America. On acring the comb all right into the new count of its more favorable location, hive, and placing it on the stand, I however, we know more of the natshook the bees in front of their new ural history of the former country home, and in they went, pell-mell, than of the latter, and hence are ensinging merrily all the way as they abled to present a more satisfactory

from the feeling that I must of held annually consumed in the ceremonies my breath all through the opera- of the innumerable Catholic churches tion, and Sam was as pale as a nig- of that country, and on this account ger could be-beg pardon, Sam, col- alone great attention is paid to the ored individual is what I meant to domestication and culture of bees. have said. Poor uncle's excitement The honey is remarkably rich and was so great that he wore off at least of a beautiful color, and more retwo inches of his favorite walking cently, large quantities of it has has cane in bringing it down on the been shipped to the New York marground so often, in astonishment if ket, where it meets with ready sale, not in admiration. Then came the at figures which enable it to comtime for dividing, which was easily pete successfully with that of home

There are many large apiaries in Now for my first experience in Yucatan, rivaling in numbers and the apiary up till July. I have one profit, the most celebrated of our hundred strong stocks; have ex- own country. These all consist of tracted three hundred pounds of the natural species, which have been honey, and should reckon double subjected to domestication. Herthat amount of box honey now on nandes, in his account of New Spain, hand, but have not weighed. Will describes several kinds—one resemsend you a report of the exact ling our own, which is domesticatamount when may bees are done ed, and hived in the hollows of trees, by the natives. Another spe-Will say just one word about cies is described as stingless, and so uncle's bees, having said enough for much smaller than ours as to be

undoubtedly identical, or nearly so, vertical position, and others horiwith the South American species zontal-the latter, superior to the described in a former article. Their other in regularity of form, and of nests resemble those of wasps and distance from one another. They are built in the rocks or suspended are propped together in an oval on the branches of trees. The hon- mass, and occupy nearly half of the ev is dark, but of good flavor. The internal space, while the other half cells are smaller than those of our is stored with the honey cups. The species, and like the South Ameri- cells which are destined solely for can, contain broad only, the honey therearing of the broad are like ours being contained in large vessels or hexangular, though the angles are cups. Hernandes states that the not so sharply defined, nor is the natives regarded the larvæ as a mouth of the cell, strengthened by great delicacy, and when roasted an additional ring of wax. The diand seasoned with said, had the fla- ameter is the same with that of vor of almonds. There are other ours, but the depth less by one-fifth, species small and stingless, that build It is singular that the young bees underground, but their honev is of are found in the cells with their an inferior quality.

species first mentioned, is abridged from the detailed descriptions of Captains Beechy and Hall, English travelers in that country:

"In domesticating their bees, the Mexicans lodge them in hives formed of short logs of wood, from 2 to 3 feet long, hollowed out about five inches in diameter, having the ends filled with clay, or wooden doors removable at pleasure; and a hole for entrance bored on one side, about halfway between the ends. They are suspended in a horizontal position from the branches of trees, or from the cottage eaves. The hive of honey being altogether apart from which Captain Hall examined was the brood-combs, and noways conmade of earthen ware, ornamented nected with them, great facility is with raised figures and circular afforded in depriving the bees of rings, and was hung in the veran- their stores. The honey is thin in dah of a dwelling house. The inte-consistence, but of agreeable flavor, rior of a hive presents, like that of and gives out a rich aromatic perthe humble-bee in our own country, fume. The wax is course, and of a a confused and irregular appearance. brownish vellow; propolis does not The combs, which have but one appear to be used. series of cells, are placed, some in a

hinder parts directed towards the The following graphic account of mouth; in being hatched, they will of course, make their exit through the bottom, not having the impediment to encounter there which would obstruct the issue of the European bee. The honey, as has been stated, is deposited in small globular bags, hung round the sides of the hive, or placed at the bottom; some of these receptacles are more than 13 inches in diameter; and in many instances are so connected together that, in the case of cells of common honey combs, one side serves for two cups, thus combining economy and strength. And these magazines

"The Mexican Bee is smaller by

one-fifth than the European, and paint was dropped at the entrance exhibits that difference in the anatomical structure of the posterior tarsi, already noticed, and also in retreated into the hive. In a few the cubital cells of the upper wings, which has been thought a sufficient reason for regarding the Mexican species-and indeed the South American species generally—as distinct from that of Europe, and to which has been given the denomination Melipona or Trigona. Many of these species are, as we have seen, described as having no stings, or at least so feeble a weapon as to produce no sensible injury, and from this circumstance they are known in the Spanish colonies by the name of Angelitos, or "little angels." The population of a hive is generally under a 1,000. Like their congeners in Europe, they have enemies to guard against; and the Black Ants occasionally put their vigilance and prowess to the proof, sometimes successfully, but more frequently coming off with the worst. One of the community, accordingly, is constantly stationed as a sentinel at the mouth of the hive -keeping her post unrelieved for a whole day; and as the entrance is wide enough only for the admission of one bee at a time, the sentinel has to withdraw into a small cavity formed with the threshold, as often as a bee enters or leaves the hive. Captain Hall remarks that "the office is no sinecure." Fortunately for the one on duty, the population is small; were it equal to that of a Eu-

of a hive; the sentinel carefully examined it, seemed to dislike it, and seconds it returned with a troop of companions, each loaded with a portion of wax,-probably a scale in a half liquid state; -this they deposited on the soiled spot, repeating the operation till it was entirely covered, and the nuisance abated."

It may be added that the honey of this species does not ferment readily, but remains sweet long after its importation to this country. -Exchange.

The Bee Desertion Disease.

In so important a matter as this, I am unwilling to commit myself this early to any explanation of the cause. I have, in former articles in your excellent paper, said that the bees act as if insane. Perhaps they are. I have discovered in dead bees, of these hives thus dving in summer, the larvæ of an insect occupying the abdomen. Perhaps the cause is an insect. In many attempts to discover the cause of the disease, last winter I could discover none. But of late I have almost daily cut bees dying, or dead, longitudinally. This divides the beesa section is easily made, and presents the head, thorax and abdomen cut into halves. There for some time occurred, while doing this, nothing to explain the matter. But at last a bee that had fallen dead before my eyes, a few inches from ropean hive, the task would be har- the entrance of its hive, presented der by twenty-fold. Like the do- this appearance: The head was mestic bee, they are fond of keeping darker and dryer in its centre than their premises clear of all extrane- in a healthy bee. The usual light ous and offensive matter. A little or pale flesh-colored muscle (as I consider it) that occupies most of mon cry of the press, and of unobthorax, was nearly gone-only a few serving men,) is that in the latter fibers left of it. The back of the ab- there is no such change in the musdomen of a healthy bee is a mass of cles that I have discovered. Often tissue, either muscular or similar to bees fall dead from a hive, perishing it. But in this bee it was entirely of this disease, with so little museu. empty and black. The honey sack was black, but full of honey. I then said to myself, I have the solution of this Kentucky Bee Disease, which is not confined to either summer or winter, has spread east until it has reached me, and is in all this vicinity destroying more bees than all other causes put together. It is a disease of these muscles, so large and powerful, which move the wings of the bee in its flight.

But right here my just born discovery received a rude check. The next bee that fell dead from the hive alluded to in my article on page 327, of May 22d, Country Gentleman, flew to a barn some sixty feet off, lighted, and slowly died. cut it open as described, and failed to discover the discoloration of the muscles, or either loss by the disease. Again I was in the dark. But to make a long investigation short, I will say that subsequent dissections lead me to say that I am now inclined to think that though the bees rarely stay in the hive until the muscular tissue is turned black and decayed, yet the muscular tissues of the flying muscles and intestinal tissues, will be found diseased. In the bees that fly the last symptom is the disease of the longest distances after deserting the muscles internal to the bee, in a hive, the muscular tissue is flesh- greater or less degree. colored or red; in those scarcely able to fly, it has dark spots or dark correct, the disease, is like Asiatic threads: and in those not able to Cholera, not in discharges, but in fly, it may be almost gone. The one thing. It is endemic, or so condifference from dysentery (the com- tagious that it spreads by infection,

lar change that one needs to look closely to discover it.

Now, Messrs Editors, and those who in all parts of the United States. Europe and elsewhere, copy so much without a word of thanks, do not say that I commit myself to the idea that I have discovered the cause of this disease, or that I assert that it is new, or that it is beyond a doubt muscular degeneration. But this is the only thing I have as yet seen to explain it.

Most of the bees have their honey sacks now (May 23,) full of sweet, clean, pure honey, which they seem unable to digest. The symptoms of the, as I suppose, Kentucky disease (because first complained of there) with me are-dysenteric discharges -no foul smell to the combs or hive. But as they are gorged with clean, pure honey in the honey sack, the hive smells of nice, sweet honey perfume. There is a large surplus of honey in the hive after all the bees have left it. There are few or no dead bees in the hive. A few bees each day, be it hot or cold, wet or dry, what it may, fly out, light on any object, and there usually stay until they fall dead. And the

Let me farther say that if I am

vet does not attack all hives in an apiary in which it prevails. Half or two-thirds of an apiary may have it. while the rest escape without a sign. As thousands of hives in this vicinity have died and the honey has been eaten, it seems that the honey is not the cause of the disease in the hee, nor is it injurious to man. months such honey has been on sale here in my own town-brought in by farmers who have lost hivestaken out of the honey chambers of hives, and no complaint has been heard of any human disease caused by its use.

Gentlemen of the Hive! You will have ample time and occasion to contemplate this disease, as I believe it will continue to spread. It came to me in one hive soon after the Kentucky loss. It has steadily and persistently held its course. I have lost half my bees by it in two years past. Others near me, who use less care than I do, have lost in the ratio of 60 hives out of 100 or 90 to 100. and some even more. Do not listen to the old familiar explanation of familiar diseases-or too much to mine. But observe, detect for yourselves, and publish for others' good. In Kentucky its work was rapid. As it spreads it seems to be less violent, but none the less sure. It is certain that it is a disease of summer and winter, and all seasons; but is usually more apparent in winter, because then the recuperative powers of the bee are less active than in summer. Indeed, the power to recover is suspended in winter .-S. J. Parker, M. D., in Country Gentleman.

Subscribe for the NATIONAL BEE JOURNAL.

Rape Seed.

As a honey producing plant, rape seed is considered one of the best. Farmers and bee keepers should give attention to the following:

The experience of the past year, not only with respect to price, but especially the long settled fact, that growing wheat year after year on the same land, impoverishes the soil, ought to have led thinking farmers to the cultivation of other products, which would put a stop to the total enervation of the soil. There are various products of agricultural industry which not only do not weaken, but on the contrary, strengthens the soil and secures to the farmer just as good, and even a better return, than wheat. Among these, and best understood, are the breeding of cattle and the production of butter and cheese, than the raising of leaf crops, such as clover, peas and rape seed, which, by covering the ground in mid-summer with a thick cover of leaves, increases the fertility of the soil. It may be said that all localities are not adapted to the breeding of stock, especially in newly settled regions. But clover, peas and rape seed can all be raised in new ground as well as wheat, and with equal or greater It is the cultivation of rape seed in particular, to which I wish to call the attention of my fellow farmers, for this branch of agriculture has not as yet received the attention which it deserves. The reason for this may be partly found in a want of knowledge of the method of cultivation, and partly in the belief that soil and climate are not favorable; but soil and climate are

favorable, as may be seen in the pounds of plaster to the acre. The town of New Holstein, Calumet plaster can be sowed with the seed county, where many thousands of and dragged in. A piece of land bushels of rape seed are grown producing rape seed one year, will yearly. The cultivation of this crop certainly yield the following year is also extending in the neighbor- from five to eight bushels more of ing towns. The price of rape seed wheat to the acre than it will after has remained steady at from two dollars to two and a half per bushel, quarts of seed is sufficient for an and the average yield per acre varies from ten to eighteen bushels, at times reaching from twenty to twenty-five bushels. It seems to me that my fellow farmers will be used in woolen and cotton mills. pleased at having their attention called to a product which always finds a ready cash market, for the reason that the production is insufficient for the demand, and must be for many years. Again, it is a product which does not weaken the soil, and helps the farmer to bring the land to such a state of cultivation and fertility as will insure good crops for several years. I will now give some directions in regard to the cultivation of rape seed for those who are not acquainted with it. The time for sowing it is from the middle to the end of June. This gives the farmer time to prepare his land. after the rest of the sowing is done. The harvest falls from the beginning to the end of September, a time when all the other harvesting is finished. It may be cut with a cradle or reaper; then raked into bundles. but not bound. After ten or twelve days it can be thrashed either in a barn or on a floor made of boards in the field. May be trodden out by oxen or horses, or thrashed with a flail. It can be cleaned in an ordinary fanning-mill. To make sure of a good crop, put on 100 to 150

any other kind of grain. Two acre. Rape seed can be had at Hamilton & Foster's Oil Works in Fon du Lac, Wisconsin. The oil is valuable for machinery, and can be The oil-cake makes a splendid food for cattle.

Obtaining New Varieties of the Strawberry.

New varieties of the strawberry may be very easily obtained. All that is necessary is to select a few of the largest and best strawberries, press out and plant the seed. They will come up in a short time and make considerable growth the present season. Another season the plants will commence yielding fruit, and no two will be of a similar quality. The best varieties can be saved for propagation and the inferior kinds destroyed. The young plants will make more rapid growth if planted in shoal boxes or pots, with rich earth and kept well watered. They should be protected from extreme cold in the winter.

The easiest method of cultivating the strawberry, is to set out a bed every year or two in rows or hills and keep down the weeds with the hoe till the runners prevent, and when the patch becomes too much overgrown with weeds, plough in. It is less work to set out a patch occasionally than to keep the weeds out of an old bed. Strawberries to grow large and yield, will require

rich land.

LADIES' DEPARTMENT.

The Old Woman's Story.

(Continued.)

heen thinking of having a bee house built for my bees this winter, and try wintering in that, for I told you before there is all kinds of vegetables in our cellar, and as you say, plan, and instructions how to build ing, as in bee keeping.

Mr. Falkner's bee house, but will give you his address, and by what I case last summer, some build castles of poor quality. in the air, and when they fall great Such is the way that some unsucto build up, and leave their house the hives.

unfinished, never thinking that the winds of winter will destroy the half finished work, but wonder why others succeed better than they. A I hope so, for I intend to give person who understands bee keepthem care and attention if that will ing will examine well the condition help the matter any, and I have of their bees early in the fall. First, that they all have good prolific queens; next that there is plenty of sealed honey, and if not, feed plentifully of syrup made from the best coffee sugar While the bees are I don't believe it is very good for busy storing their winter supplies, bees to winter in such a place. If the queen is not idle, but steadily you will give me the address of the keeps on depositing eggs as if the man that has the double ventilated honey was gathered from the flowhouse, I think you said his name ers. Then, when the warning winds was Falkner, I intend to send for a tell you it is time to put them under shelter, you will find not only honey one, unless you can give me the in- plenty but the hives filled with formation needed, on house-build- young bees, in which case we would not be afraid to risk our bees. I can not give you a description of Beginners often think if they have a hive of the most approved plan, the bees will take care of themselves can learn from reliable persons the of course. You ask them if their house is a good one for wintering bees had plenty of honey for winter bees-the arrangements for ventil- and they will say, "I guess so, they ation is such that the temperature were transferred two months before can be regulated with little trouble cold weather, and suppose they to the apiarian-and many of our had plenty of time to gather what skilled beeists are seriously thinking honey they needed." "Are you it may be best after all to build a sure they all had queens?" "Don't house sufficiently warm to keep their know, didn't look at them, but I bees from freezing to death, as in saw them flying out and in, supthe past winter. Some say, "why posed they were all right, so I put can't our bees winter out of doors them in the cellar." When very as they used to?" There is more likely, the two months that they attention paid to bee keeping now had to gather their winter supthan formerly, and when we lose our plies, there was not honey enough bees we know it. For, as in your in the blossoms to live on, and that

is the fall thereof. Just so with be- cessful bee keepers manage, then ginners, they take hold with a will wonder why their bees die or leave

bees out of doors? Yes, and like it fondle it, to all appearance quite well. Even there you will find few unconscious that they have a sting. that will take the necessary trouble, and you would be pleased to see the but leave them out in the storm and ever busy thing set to work cleanbitter cold, wholly unprotected. I ing up, taking out all the dead bees take my hives, place them close to- and rubbish that has accumulated gether, two rows back to back, put during their imprisonment. And a rough fence around them and here let me tell you what I do, for I cover them well with hav. I mean, believe in helping everything that make a regular hay-stack over them. have a disposition to help them-This way, I think, is good, for they selves. I like a hive with a false get the benefit of the pure fresh air bottom. No, I will take that back, when they get any, instead of the I like nothing false, I mean a hive pleasant aroma of decayed vegeta- with a bottom that can be easily rebles, as in your case, for you admit moved, by which I can clean in a the vegetables in your cellar were few moments what would take them half or two-thirds decayed before hours of labor. They work first, you looked at your bees in the then play, you know, and this gives spring.

astrous as the cold winds, is the first spring day, but be careful to shut rays of the sun which strikes the them up snugly for the night, as unprotected hives, the bees become day succeeding day even into weeks, uneasy, and feel, after the long may pass before another comes. months of confinement, the neces- With this, my out-door wintering sity of flying out to discharge them- plan, I have succeeded well. selves. If the entrance to the hive I expect to have the advantage of should be open, they come out while you in the future, for in the fair the snow is yet on the ground, the sunny south we have no need of air outside is cold, they become such precaution. During our stay chilled, fall on the snow and perish. in Tennessee, we never needed to put On the other hand, if shut up, they our bees in house or cellar, nor even become uneasy and discharge in the sheltered out of doors, and the hive, the consequence of which is amount of honey they would gather disease and death. While protected you would hardly believe were I to from the cold bleak winds they are tell you. And from what Mr. A. also shielded from the warm rays of says I am inclined to believe that the sun, consequently there is no Florida is better still, and will test undue excitement in the hive. Then it ere long, no preventing proviwhen the time comes to warrant dence. their safety, it is an easy matter to Now let us go to the apiary. Here remove the hay from the entrance is the Southern gray bee, this of the hive and let them fly out. swarm has traveled with Mr. A. Then how grateful the little bee-ings over fifteen hundred miles. seem to feel, they hum and sing, came right side up, but not with

You ask if I ever wintered my alight on your hand, and appear to them a chance to play in the few Another thing that is quite as dis- short hours of a winter or early

care, for they met with two acci- them apart; the workers, too, are dead bees, and the colony was as strong as you see them now. They are large and of a gray color, you see, very quick in motion, neither are they disposed to be cross. other good trait have they, they remain on the comb while we examine them, like the Italian, this is not the case with the black bee, for they will run all over, down to the bottom of the comb, then drop off.

Well, well, I should think they were a nice bee to handle. How strong they are, aint you afraid they will swarm?

Oh, no, they have no queen cells, I see, poor things. I wonder if they know they are in a strange country, among the yankees, as the Southern folks call us. Well, little pets, welcome to our clime of short summer, with your almost ceaseless industry. Yes, welcome, even if your coat of gray proclaims you a rebel bee, nature gave you that, and we accept the color.

Now there is the queen, she is very large and not quite as light colored as I should expect, to look at her bees. I wouldn't mind to have some of them next spring myself. This hive you say, has one of you best breeding queens. I think mine are as fair to look at as that, but you told me once before that it was not always the best looking queens that proved the most prolific or the best to breed from. Her worker bees are beauties, I am sure. I would like to see some of the young queens

dents, and when opened here there just alike, I think it impossible to was not more than half a dozen find nicer bees than them if one should try. The six that I have at home are fixed just like yours, only the frames are in the center of the hive, and a dividing board on each side of them, to economise the heat, you know. Some would think that I could not get much honey against the Fair time, but I think I will, you see my bees are on the edge of a low piece of land, I sowed a large patch of Alsike clover there last spring was a year, and it does look beautiful now; then there is plenty of mustard catnip, sweet clover, bee plant, golden rod, and every kind of flower that I thought would yield honey, planted or sowed right around them. I don't think there have been a single day that my bees has not gathered honey this season, while last year at this time, if you remember, the bees did nothing but eat up what honey they had made. Then the buckwheat done well with us last fall, and take it all together, I have great hopes of my bees making a pile of honey yet for the Fair or Exposition.

(To be continued.)

A Successful Woman.

MRS. ELLEN S. TUPPER, THE BEE CUL-TURE AND HER WORK.

Des Moines Letter to St. Louis Globe.]

Mrs. Tupper was born in Providence, Rhode Island, in 1822. She was a daughter of Noah Smith, afterwards a prominent politician in Maine, and for fifteen years First you raised from her. Is that one of Assistant Secretary of the United them? Why that is just like her States Senate. Her mother was a for all the world, I could not tell sister of Henry Wheaton, author of the well-known treatise on interna- bankruptcy came upon tional law.

Providence, having all the advan- of relief. She had never done a tages that wealth could give; and moment's manual labor. Necessity with that practical turn of mind stared her in the face, and several characteristic of her, she studied small children, one a babe, rang many subjects not usually taught their demands in her ears. She enthen to girls, but which since have gaged as a teacher of a school three been beneficial to her. She made miles distant at twenty dollars a good use of her opportunies, for at month, and with her babe on her the age of sixteen she wrote an es- arms she, on horseback, daily went say to compete for a prize offered to her task, attending to her houseby a leading and popular magazine, hold duties when out of school. Afand won it over many competitors. ter the close of this school, she es-The motto which actuated her then, tablished a school in her own house; has been her beacon through life, she loves little children, and soon "to win success."

Tupper, a successful lumber mer- until 1857, when she turned her atchant at Houlton, Maine, her father tention to bees. She purchased two having already moved there and en- colonies, and began to work with gaged in the lumber business. them, meanwhile reading every-There she resided ten years, enjoy- thing which she could find relating ing all the luxury that wealth could to bee culture; but she soon learned give, when her husband removed to that theory and practice were two Newton, Massachusetts, where her quite opposite matters. Her two health failed and she became a con- colonies increased rapidly. firmed invalid. Her physicians bought improved hives as fast as she pronounced her heart diseased, and could afford them. She soon after her stay on earth very short, became interested, in Italian bees, Thinking a change of climate might and procured a few. She then bebe beneficial, the family came to gan to write about bees, giving the Iowa, in 1851, locating at Brighton, result of her practical knowledge. Washington county, she so feeble as Her first article was published in to be unable to leave her bed. The the Burlington Hawkeye, she receivfresh and invigorating air of her ing pay therefor. In 1865 she wrote new location soon revived her wast- an essay on bees for the United ed energies, and she regained her States Agricultural Report, which health. Her husband in the mean- was pronounced by good judges to time had invested his money in a be the best essay ever published by tract of timber land and saw mills. the department, and a Washington His health soon failed, and being paper said of it, "Though written unable to attend to business, his by women, it is a model for efforts wealth melted away like the dew of that kind. She knew what she before the sun, and poverty and wrote about, and told it-not one

Thrown thus upon her own resour-Mrs. Tupper was educated at ces, Mrs. Tupper sought some way she had a house full of pupils. Thus In 1843 she married Mr. Allen she managed to support her family waste word in sixteen pages." Her tired, that I can form no plans her subject.

about one mile from the city.

Early this spring, while she was This colony will this season in-

reputation soon began to be estab- for the future. It was an hour lished; she was sought out by vari- of trial which would have disons journals, and she now writes re- couraged many a brave man. Afonlarly for the National Agriculturist ter years of toil and labor with a and Bee Keepers' Magazine, the New large indebtedness to her late part-York Tribune, National Bee Journal ner, a large family, an invalid husand Colman's Rural World. She al- band, thus to find herself almost so has the position of lecturer on where she begun, was soul-trying, hee keeping, natural history of bees, but with the indomitable will she etc., in the State Agricultural Col- possesses, she marshalled her enerlege at Ames, whither she goes regies for a new battle of life, and galarly. With the officers of that amid all her misfortunes there was institution she has visited different not a shadow on her face. Moneyparts of the State, holding Farmers' ed men came forward and tendered Institutes, and wherever she goes her means, but she refused it, choosnever fails to elicit much interest in ing to paddle her own canoe. With two hundred dollars she purchased In the spring of 1872, she, with her four Italian queens, and with a few family, removed to Des Moines, in stocks of bees which she secured order to gain a more central loca- elsewhere, she started again. Soon tion. She formed a partnership after a farmer from a distance offerwith Mrs. Annie Savery, thereby ed her fifty colonies of common adding abundant capital to her black bees, to be paid for when she practical knowledge, and the firm pleased and at what price she pleaswas known as the Italian Bee Com- ed. Mr. James Smith, the wellpany. An agent was dispatched to known horticulturist, who resides Como, Italy, to procure queen bees, a mile south of the city, and two and the business was rapidly in- miles from her residence, offered her creased. In the fall of that year the use of his fruit tarm, on which she purchased the interest of Mrs. to set up her new colonies, and she Savery in the business, and placed accepted the kind offer and removed her bees for the winter in the cellar her bees there, and immediately set of her own house, at Cottage Grove, about removing them to movable comb-hives and Italianizing them.

in the city, with her family, her crease from fifty to one hundred house took fire and her two hun- and two, and will produce over sevdred hives of bees were destroyed. en thousand pounds of honey. So Writing to a friend she said: "I that before the year is gone she will came home to night to find my have recovered very much from her house a wreck and the two hundred loss. At her home she has twenty stocks of bees ruined. Is it not colonies of royal blood, from which hard sometimes, to believe, that 'all she supplies her trade, together with things work together for our good?' importations by each ocean steamer. I have worked so hard and am so She will soon be able to fill all orders again. In reply to a question of years, nervous sanguine temper. the other day as to what hives she ament, speaks rapidly and uses no used, she replied, "The cheapest I superfluous words, modest and unas. can get; they do not cost over a suming in manner, and what would dollar and fifty cents each; but I be called in plain terms homely. want one side so it can be removed, To a casuat observer, she is the last a movable cap, and the inside filled person you would select as Tupper. with movable frames.

and worms?"

as I will show you," said she, and devotes much of her over-burdened she removed the side comb filled mind, and she has the satisfaction with honey and covered with bees, of knowing the children love her. standing the frames around outside As a business person she is one of the hives, inspecting them carefully. the most active and resolute in the This she does nearly every day, to city. She fits into the business of find the queen and any bug or worm the Capital City and fills her place that may get in. These frames she just as fittingly and nicely as anyhas filled with the comb which she body. Business men accept it coursaved from the ruins of the fire, and teously and admire her modest dethe bees are filling it nicely.

woman teach the women of this bees, honey, extractors, hives, etc. country? She might, as might a There was not a day during the last thousand others, have been a use- severe winter and the cold, wet less woman despite her education spring, that she was not in the city and mental attainments, and yet she attending to business. might have been obliged to sit down and be helped, but for the advantages which her early education gave her, and which gave her the first money she ever earned. Realizing this, she has given her eleven children the best opportunity possible to acquire an education. One of them, her eldest daughter, is now filling a pulpit as preacher, at Webster, Mass., at a salary of \$5,000 a year-a noble woman, as talented and eloquent as she is quiet and unassuming.

Mrs. Tupper in person if of small stature, dark-blue eyes, thin features, well developed brain, somewhat bent with toil and the weight

She as an active member of the "Well," said I, "how about moths Baptist Church, and her special pride in church is the Infant Class "I don't have any about my hives, in the Sabbath school, to which she

meanor and perseverence. She at-What a lesson does this resolute tends personally to all shipments of

> LOOK OUT FOR MOTHS .- A correspondent writes us that he traps them by the thousand, by placing small dishes around the apiary filled with sweetened water and vinegar. Try it, who are troubled with the pesky things.

> ONE great and kindling thought, from a retired and obscure man, may live when thrones are fallen, and the memory of those who filled them is obliterated.

We will be pleased to hear from all our lady friends interested in bee culture, through this department.

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EDITOR'S TABLE.



INDIANAPOLIS, AUGUST, 1873.

WE publish E. M. Johnson's letter which will explain to our readers the reason that some of our queen orders yet remain unfilled, and would say that we have filled all orders but those that were sent to him, soon as we learned that it would be impossible for him to furnish early queens. We sent to apiaries north and south, and have made extra effort in our own apiaries to supply the late orders, unfortunately some of the most important, or in other words, orders of the longest standing, were sent to him, but likewise unfortunately for those whose names were sent, for Mr. Johnson, and for us, the season has been most unpropitious for raising queens in that section of country. We would like to have all our orders filled by Mr Johnson, for his queens has given great satisfaction, hence our reason for sending him as many as he can fill. But where orders for queens are sent to an apiary we can do no more, as in some cases last summer, in our anxiety to fill the orders we sent out queens, and before we could countermand the others were sent, con- receive a premium queen.

sequently some received two queens instead of one.

In the many hundred queens that we have shipped last year and the present, we have sold but one queen outside of our subscription list, and that by mistake, so by this you may understand, you who are disappointed, the delay has not been caused by carelessness or speculation on our part. The season with us has been good for bees and honey both, the reports from most parts very good, the bee keepers are much encouraged after viewing the stores of beautiful honey gathered by their faithful little laborers, and last, but not least, the amount of money it brings.

OUR friend J. W. Winder reports that he has extracted eight hundred pounds of honey from his nucleus hives alone, others say they have not weighed their's, but should think they will average between 200 to 300 pounds per colony. A correspondent from Tennessee writes the season has been unusually good. Our friends will confer a favor upon us and the readers of the JOURNAL, if they will report how the honey season has progressed in the different parts of the United States, and report the amount of swarms made and condition of same.

WE find by examining our books that some of our patrons are in arrears for the JOURNAL, please send your dues gentlemen, for positively it takes money to keep up a paper. Pay us, and we will pay you in return with interest.

Send in your subscriptions and

J. W. Hosmer Still Ahead.

In a private letter written July 31st, Mr. H. states that bees wintered poorly. On June 1st, had eighteen colonies; set two out for honey, sixteen for increase, but so weak in numbers it appeared as if they would all die out. He did not have one stock but could go between two combs in cool weather. They began to breed up and came out all right at last, for such small colonies. In the same month, (June) he sold nine old stocks and thirty young ones; in July, sold three old stocks and four young ones-thirty-six in all, besides queens, and has now on hand one hundred and twenty, besides the honey producers. He says he will not speak of what they have done vet, but there has been one continual flow of honey. says, "The loss in winter is so severe. I would like to know something about Florida, if suited for our business."

We cheerfully answer you, old friend. Excuse, I do not mean old in years, but the acquaintance of sixteen years is quite awhile after all, you know. We think there is no country better adapted to bee culture than Florida. There is a continual garden of flowers, from which the bee gathers honey, and almost perpetual summer; a ready market for honey, and a country that can hardly be excelled for beauty; an abundance of soft water, beautiful lakes filled with trout and other fish equally as fine; the deer and antelope roam free in the forests of tall pine trees, whose branches tower sky-ward; cedar and cypress in abundance; the best chance

imaginable for the lumber trade. So, friend Hosmer, we would advise you to take your mill and go—gun also, if you have a taste for hunting, but if we remember right your taste runs strictly to business. Being in receipt of many letters from the best aparians, J. W. Winder and others too numerous to mention, we take the opportunity of expressing our opinion about Florida. It is a good country, good health-giving climate, and every opportunity for an energetic man to get rich.

BAD news from the little bee man of our State, Peter McPhatridge by name. Eight colonies of bees to begin with in the spring, has now twenty-four — thirty-one hundred pounds of honey on hand—bees still busy gathering more, with fair prospect of doubling that amount. Go to Florida, Mc.

WOOLEN FACTORY,

West end of Washington St., south side, INDIANAPOLIS, IND.,

JEANS, MANUFACTURE

CASSIMERES,
TWEEDS,
SATINETTS,

FLANNELS, REPELLANTS, STOCKING YARNS, BLANKETS, &c.

We are now Retailing these Goods of Wholesale Prices.

Buy your Goods at our Factory and Save 30 Per Cent.

250,000 LBS. WOOL WANTED

For which we will pay the HIGHEST MARKET PRICE in cash or goods.

BOS Don't sell your wool until you have seen us.

CHOICE QUEENS. FOR 1873.

My prices for Italian queens for the coming season, will be as follows:

For Warranted Pure Queens. 1 queen.....\$2 50 " each 2 25 " and upwards, each 2 00

Tested Pure Queens,

For 1 Tested Pure Queen......\$3 50 " each... 3 25 " 6 and upwards, each...... 3 00

Queens will be bred from none but the choicest stock, and no drones will be allowed to hatch except from the purest mothers. Should any warranted queens prove impure, they will be replaced.

Orders will be filled in rotation, there-

fore, the sooner they are sent in the sooner the queen will be received. Queens will be sent by express or mail, as I may deem safest at the time of shipment. In ordering give plainly the name of express and post office, if different from each other. Always be sure to give the county and State in every letter.

How to Send Money.

Small sums of money may be sent in registered letters. Larger sums by post office order on Painesville, O., office. letters answered on the same day that they are received, so that none are forgotten.

Bee Feeders.

I have invented a bee feeder, which for conve-pience in filling and handling, I think can not be surpassed. Samples, holding 3½ lbs., will be sent by mail, postage paid, for 50 cents each. Per dozen, by express, not pre-paid, \$3,00. Address all orders to

E. M. JOHNSON,

Mentor, Lake Co., O.

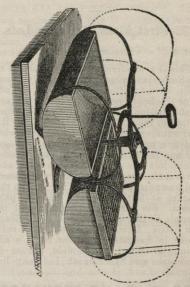
HOOVER & BARTHE,

Dealers in

PURE ITALIAN QUEENS AND BEES.

All kinds of Aparian Supplies on hand. Also A. J. Hoover owner of the State of Pennsylvania, will act as agent for the Celebrated Queen Bee Hive, Pat. by Thos. Atkinson, also the Extractor and National Bee Journal, for the Eastern and Middle States. For information address

> HOOVER & BARTHE, Plymouth, Pa



THE ATKINSON

NEY

RACTOR.

This machine is the most simple, cheap and durable that has come before the public. It will empty large combs or a number of small pieces can be laid on at a time. It works very easy, as the whole weight revolves on a pivot. The princi-ples applied in this machine are the simplest in nature, being the combination of gravitation with centrifugal force.

PRICE, \$8 00.

Address,

ATKINSON & CO.,

National Bee Journal.

INDIANAPOLIS, IND.

I dont want anything better for me. A. K. Brown, St. Louis, Mo.

I am well pleased with the extrator. For simplicity and ease of management, it could not be improved A. S. PORTER, Ohio.

It is all that a man can desire for a a honey extractor, and only eight dollars.

J. FINLEY, Tenn.

SCHOFIELD, HARRISON & CO.'S

ADDITION TO INDIANAPOLIS.

232 First Class Building Lots.

This is a subdivision of that portion of the Sutherland place east of the Indianapolis, Peru and Chicago Railroad, It adjoins the Bruce property, now in process of subdivision into a magnificent addition. It lies on the line of the I. P. & C. R. R., four squares north-west of the car works, and five north-east of the State Fair and Indiana Industrial & Exposition Grounds. These lots are free of incumbrance, and are first class in every respect for residence and business purposes. They are on the market at fair prices and on easy payments. For further particulars call on Temple C. Harrison, rooms 8 and 9 Brandon Block; David B. Schofield, at his residence in Sangster, Harrison & Co.'s addition; or Wm. A. Schofield, corner of Tennessee and St. Clair sts., Indianapolis.

FOR SALE AND EXCHANGE.

Farm Lands,

Improved and Unimproved,

In the following States:

INDIANA,

ILLINOIS,

MISSOSRI,
IOWA, and
TENNESSEE.

Also for sale or trade,

CITY PROPERTY.

W. A. SCHOFIELD, National Bee Journal Office.

TO ADVERTISERS.

Everybody having property to sell or exchange, should advertise in the

NATIONAL BEE JOURNAL. Having a large circulation throughout the Union renders it one of the best advertising mediums through which to reach the people.

BEST THING IN THE WEST!!

ATCHISON, TOPEKA & SANTA FER.R.

Three Million Acres

Situated in and near the Arkansas Valley, the Finest Portion of Kansas.

Eleven years' credit. Seven per cent. Interest. 22½ per cent. reduction to settlers who improve.

A FREE PASS TO LAND BUYERS.

THE FACTS about this Grant are—Low Prices, Long Credit, and a Rebate to settlers of nearly one fourth; a Rich Soil, and Splendid Climate; short and mild Winters; early planting, and no wintering of Stock; plenty of Rainfall, and just at the right season; Coal, stone and brick on the line; Cheap Rates on Lumber, Coal, &c.; no land owned by Speculators; Homesteads and Pre-emptions now abundant; a first-class Railroad on the line of a great Through Route; Products will pay for land Improvements.

It is the best opportunity ever offered to the public, through the recent completion of the Road.

A. E. TOUZALIN,
Manager Land Department,
Or W. A. SCHOFIELD, | Topeka, Kan.
Indianapolis, Ind.

ARKANSAS VALLEY.

FARMERS,

Or others going south-west to enter lands in the beautiful Arkansas Valley, through which runs the great

Atchison, Topeka & Santa Fe

will get all the necessarry information by addressing

W. A. SCHOFIELD, Indianapolis, Ind., Agent.

Mr. S. is about to get up a grand excursion to come off sometime in August, due notice of which will be given through the NATIONAL BEE JOURNAL and other papers. See Railroad advertisement on this page.

THE LADIES', OR, QUEEN BEE HIVE.

THE UNDERSIGNED HAS ON HAND FOR SALE, AT THIS OFFICE, THE far famed LADIES' HIVE, (better known as the Queen Bee Hive,) made of the best material, well painted, and put up for shipping for the sum of Three Dollars each. Large or small orders filled at that price.

Our rapidly increasing business enables us to offer to Bee keepers a Hive well adapted to all persons and changes of climates, and with many advantages over high

riced Hives.

Also, Honey Extractors, Honey Trowels, and Clover Seed for sale.

Please send stamp for information to

Mrs. T. ATKINSON,

Editress National Bee Journal, Tilford's Building, Indianapolis, Ind.

EXTRACTS FROM LETTERS RECOMMENDING THE QUEEN BEE HIVE.

Mrs. T. Atkinson, Indianapolis, Indiana:

ESTEEMED FRIEND:—I have used thy Hive now three years, and it gives me pleasure to say to thee that thy Hive is all thee recommend it to be, and I would cheerfully give information to its superior qualities to any one wishing to learn.

Truly thy friend, JENNY MERRIT, Milton, Wayne Co., Ind.

My Dear Mrs. Atkinson, Indianapolis, Ind.

Having recommended your Hive to many of my friends, although at present I am not in the bee business, I will still recommend it to all, and to lady bee keepers especially. Having closely observed the difference in the working of the many different hives I have had in use. would say without the least hesitation, the Queen Hive is the best for ease of management, and economy of time, the last of which I consider of great importance to bee keepers. Will call at your office in a few days, with a lady friend, who is going extensively into the bee business. Excuse this note.

From your friend. KATE BEDFORD, Indianapolis, Ind.

Mrs. T. Atkinson, Editress National Bee Journal, Indianapolis, Ind:

DEAR MADAM:—Please send me a sample of the last improved Queen Bee Hive. I have been using it for the last two years, and like it better all the time; in fact, I would not look at any other.

SAMUEL N. REPROGLE, Hagerstown, Wayne Co., Ind.

Mrs. T. Atkinson, Indianapolis, Ind:

DEAR MADAM:—The improved Queen Bee Hive arrived here in good time, right side up with care. I am really astonished at the improvement. I thought it was perfect before, but this far exceeds in simplicity. I have used it for three years, and find, aside from the ease with which we can handle our bees, it is the best for summer and wintering I have ever owned, and the name of them are legend.

With respect,

J. W. KIMBERLAND, Oakland, Ind.

Mrs. T. Atkinson, Editress National Bee Journal:

Dear Madam:—The Queen is ahead of anything yet, notwithstanding I have some of the latest so-called improved hives of the age.

Very truly, ALBERT TALBERT, Shelbyville, Shelby Co., Ind.

SCHOFIELD, KING & CO.,—DEAR SIRS:—Please send me a good Extractor, one that you can recommend I notice in the Journal you advertise the Atkinson Extractor; if it is one-half as good as the Queen Bee Hive, patented by Thos. Atkinson, send it along. I have used his Hive for three years, and think it has no equal.

GEO. W. GREEN, P. M., English Lake, Starke Co., Ind.

Thee may add my name to the list. I know it is the best Hive I have ever used, and I have kept bees for forty years. W. A. SCHOFIELD.

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Cards inserted in this Directory, and copy of the paper sent one year, for \$8 per annum, cards to be four lines or less each additional line \$2 per annum will be charged. A line will average six words.

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MURPHEY'S IMPROVED HONEY EXTRACTOR, the best in the mar-Address, R R. MURPHEY, Fulton, Whiteside Co., Ill.

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TALIAN BEES.-We offer for sale about 200 colonies of Italian Bees in the American Movable Comb Hive, Also, Queens throughout the season. and safe arrival guaranteed. For further particulars, prices, &c., send for circular. BALDWIN BROS.,

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KRETCHMER, Importer and Breeder of Pure Italian Queens. For circulars and particulars, address, Coburgh, Montg. Co., Iowa.

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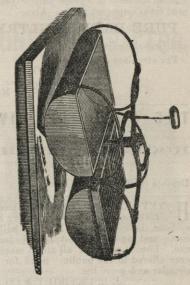


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Enclose Stamp for Circular.

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Reared on Kelley's Island, Ohio,

TWELVE MILES FROM NATIVE BEES.

WOULD SAY TO MY FORMER PAtrons and others, that I have made arrangements to return to this Island, for the purpose of rearing pure and reliable Queens, and would solicit a liberal share of patronage.

My Queens will be bred from mother imported direct from Switzerland, Italy, where they are claimed to be the most un-

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Gray's Improved Honey Extractor,		
No. 1	\$16	00
Wax Geisters, complete		00
1 Tested Queen from Apiary No. 2	6	00
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The best geared machine in the market. has been in use for the last two seasons. and gives universal satisfaction. I could give many very flattering notices (See Bee Journal for 1872,) and recommendations of the superiority of this Extractor over all others. It has taken first premium over all others wherever shown, and County Fairs. Price reduced for 1873.

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After the first of June I will fill orders

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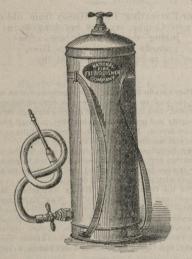
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