

### The Southland queen. [Vol. III, No. 5] September 1897

Beeville, Texas: The Jennie Atchley Company, September 1897

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# The \_\_\_\_\_ SOUTHLAND QUEEN.

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BEEVILLE, TXEAS. September 1897\_\_\_\_\_

#### SOUTHLAND QUEEN.

SEITEMBER

MM		\$13.00 mail	
Charles and 1892.	Honey knife All Bingham smokers at metal, patented 1878-1893 B&H The four larger sizes hav and double coiled wire shields and handles are a	e extia large handles.	shields These

always cool and clean. No more sutty or burnt fingers. The Plain and Little wonder have narrow shields and wire handles. All bingham smokers have all the new improvements, viz: direct draft, moveable bent cap, wire handles, inverted bellows and are in every way absolutely perfect.

Fifteen years for a dollar. One-half a cent a month.

Dear sir:-Have used the conqueror 15 years. I was always pleased with its workings, but thinking I would need a new one this summer, I write for a circular. I do not think the 4 inch smoke engine too large. Yours, w H Eagerty, Cuba, Kan., Jan. 27, 1897.



**YOUNG PEOPLE.** Subscribe for a paper that is elevating in character, moral in tone and especially interesting and profitable to young people, but read with interest and profit by people of all ages. Nondenominational if should go into every househeld. Subscription price \$1. per year, but norder to introduce it, we will, on receipt of 15 cts in stamps, send it to new subscribers 3 months if sent at once. Free: A Bicycle, Gold Watch, Diamond Ring or a scholarship in Draughon's Bus, College, Nashville, Tenn. or Texarkana, Texas, or a scholarship in most any reputable Bus. College, Nashville, Tenn. or Texarkana, Texas, or a scholarship in most any reputable Bus. College cash commission paid agents, Address Yourn's Apvocare Pub. Co., Nashville, Tenn. [Mention this paper.]

The Youth's Advocate and the QUEEN one year for \$1.75.

#### 

Willie and Hix are off to-day for a load of bees fifty miles distant, and they expect to make the trip in four or five days overland with wagons.

We complete the full report of the Central Texas Bee-keepers Association with this issue and we think you will find the report quite interesting.

PEOPLE are now beginning to plant fall gardens, and we expect soon to have green and new vegetables upon our tables till Christmas.

We want everybody to keep an eye on our bee meeting here, which meets the first Wednesday and Thursday in November.

HONEV is selling from retail stores in San Antonio, Tex., for 7c per pound, put up in pound tumblers. Comb, in one pound sections, is selling for 10c.

Mr. F. L. Aten of Pflugerville, Texas, is fixing to ship a carload of honey and has harvested a fair crop this year, taking about twenty tons.

New York state bee-keepers are complaining of a poor season, and some other states; but we believe, as a rule, a fair crop has been secured.

Bee Crank will begin his series of comments and general information in this issue, and we are expecting some good hints from him as we know he is able to give them.

We met George Hufstedler down town today and he had a broad grin

on his face almost from ear to ear on account of the rain. He expects to take some honey soon.

WE have just had a good rain which will soon start our second spring, as we term it, and the bees are already beginning to pick up, and if we get a few more such showers in September, we will get some fall honey.

WE have just received a shipment of bees wax from a customer, which is almost as black as tar. He evidently used rusty iron kettles to make the wax in, as it is a little the blackest we have ever seen. We wish to keep advising our friends that it is not good to use iron vessels of any kind in making wax, unless such vessels are galvanized.

Mr. W. H. Laws writes under date of August 27, and says he has had a good season; but, unfortunately, the bitter weed has furnished some little honey all along, which has made it difficult to harvest any real good honey in his locality, Lavaca county, Arkansas.

One lady and her grandson, whom Willie called on, have built up a large apiary in two years; starting with only a few and following our instructions they have succeeded and are now living happy and making plenty to live upon and some to spare. This lady is sbout 70 years of age too, and her grandson is small—about 14 years old. If these old people can do this, why can not the young ones do as well if they are amind to? The lady and boy mentioned are Mrs. America Smith and Warren W. Downing, of Pettus, Texas.

SEPTEMBER

#### BEE-KEEPERS IN SESSION

AT CAMERON; PERMANENT ORGAN-IZATION; AN ENJOYABLE EVENT; NEW MEMBERS ENROLLED;

SUBJECTS DISCUSSED.

[Continued from last issue.] BY LAWS.

First: This institution shall be known as the Central Texas Bee Keepers Association.

Second: The officers of this association shall consist of President. Vice-President, Secretary and Treasurer. The secretary may be treasurer.

Third: The object of this Association shall be to promote the general interests of apiculture in Central Texas.

Fourth: This assembly shall meet semi-annually; at such times and places within its territory as may be decided upon by a majority vote of the members present.

Fifth: The officers of the Central Texas Bee Keepers Association shall be elected by a majority vote of the members present; term of office not to exceed one year.

for re-election to the same office to ed. If a delegation of bee keepers succeed himself.

body shall pay an annual fee of railroad officials there may be refifty cents, which shall be retain- ductions on freight and passenger ed in the treasury for the disburse- fares, etc. We should work to

ment of the current expenses of the association.

Eighth: All white persons interested in apiculture, are eligible to membership in this association.

Ninth: All members of this association shall be governed by the rules and regulations as may be adopted from time to time by a majority vote of the members present.

Tenth: All questions coming before the body shall be settled by a yea and nay vote.

Eleventh: No rule or regulation of this association shall be changed or altered without a twothird vote of the members present.

Twelfth: The president is empowered to appoint delegates at any time to represent this association, when in his judgment, such representation will be in the interest of this association.

#### OUESTION BOX.

1st. Is it wise to discuss questions not directly connected with the bee business in our meetings?

Mr. Atchley-I think we should. I well know that if bee keepers should use their united strength there is a great deal of good to the Sixth: No member is eligible fraternity that may be accomplishwere sent from our association to Seventh: Each member of this represent us at the meetings of the have our industry recognized by box on the morning of the last or the commerce of the world.

Do bees gather honey 2nd from corn tassels?

O. P. Hyde-They do.

Mr. Guess-They do.

Mr. Aten-I won't accept their evidence unless they have seen them gather it from the tassels with their own eves. I have never seen a bee poke out its tongue when at work on corn tassels.

C. B. Bankston-Mr. Aten is correct. They do not gather honev from corn tassels.

John Pharr-My bees get rich from corn tassels.

J. C. York-I think my bees gather honey from them.

3rd. Which is the most profitable comb, or extracted honey production?

E. J. Atchley-In most localities in Texas the production of extracted honey pays the best.

E. R. Jones—I thoroughly agree with Mr. Atchlev. Mr. Aten has been running for extracted honey for many years and is of the opinion that it pays better than comb honey productions in Texas.

as to the proper time to open the cerned, But, if the man who is to "Question Box," stating that he manipulate the bees should be an thought best to answer the ques- amateur bee man, there should be tions on the morning of the second some provision made in the conday.

second days of our conventions.

Judge Terral-I am opposed to that as there is no room for anything else when the question box is opened.

C. B. Bankston-I am in favor of the question box on the second morning. I believe that we should make our bee meetings as instructive as possible. When the question box is taken up the convention should become interested with discussions of valuable subjects concerning bees. We have consumed so much of our time discussing things which do not concern any one till we have made a set of ridiculous fools of ourselves.

A vote was then taken and it was decided to let the box be opened in the evening of the last day.

E. J. Atchley on Leasing Bees: -I am under the impression that when a bee man leases his bees out the contract should be duly considered and drawn up in writing same as all other business transactions, provided both parties are practical bee men. In such cases a definite trade may be made and S. D. Hanna raised the question carried out beneficial to all contract which would enable the capi-O. P. Hyde-I am very much talist to save his property in case in favor of opening the question the manipulator of the bees should prove to be a bee exterminator in- nies which seem to have more stead of a bee keeper. Some times than they need if any such there a man may be deceived and let his be. Otherwise they will be fed. apiary out to some ignorant person, E. R. Jones--Ask Mr. Aten therefore he should reserve the how he got the combs drawn out right to redeem himself in such to fill the extracting supers? cases. On the other hand, igno- Mr. Aten said that he used founrant people abuse a bee keeper dations in the frames. Fill the frequently just because things do super and set on top of brood nest. not work out exactly like they ex- Willie Atchley-I do mine just pected. Hence, if you are an ex- that way. perienced apiarist, you should be C. B. Bankston-I don't, unless careful about leasing bees to some the honey is just sloshing around ignorami who cannot weigh the the place. In my locality the flow difficulties with which the bee man is so gradual till you would scarce is often confronted. I have heard get your combs drawn out at all by of many failures where there was a that method. I swap an empty good bee man at the wheel. Honey frame for a frame of brood and flow does not always follow the ex- place the brood in upper story, perienced bee keeper. Failure af- and keep at it till I have my suter failure may be the result. At pers full. In this way I can sesame time the apiarist may be do- cure the straightest combs, all ing his work efficiently. All these worker cells, and stronger than things should be considered care- you or I or any one else can who fully. Don't rush into things of have them built out in upper stowhich you know nothing.

F. L. ATEN ON EXTRACTED HONEY.

Mr. President: I did not know that I was on the program. I am altogether unprepared to speak on the subject. I try to keep my bees pure and well provided with winter stores. I have about two and three extracting supers for each hive, and about all the attention I give them is to see that they have good, prolific queens and in case any should become short on stores they are supplied from other colo-

ries. Remember, I do not put all the comb which the brood nest contains up there at once. Brood combs are best for extracting.

E. R. Jones .- I have tried Bankston's plan and it works pretty well.

Willie Atchley.-We have large swarms and heavy flows and can have them built out in upper stories as nicely as by any methods.

Mr. Jones.-I have experienced some objections to the modus aporanda as set forth by Mr. B. in as much as the appearance, as well sult of having previously reared single justly-earned honor, but I brood in the combs.

Aten?

Mr. Aten endeavored to explain combs always make dark honey."

was promptly interrupted by Mr. which I paid seventeen cents. I Jones.

ed to say that as nice honey could last one accepted by the bees, notbe produced in dark combs as could withstanding it was placed in the be produced in white combs and we center of the case. I have this secare sorry that he could not have a tion here and I want you all to cut chance to say it.

#### TERRITORY

Organization, which consisted of tect a vast difference. Messrs. E. J. Atchley, Fred L. Henington, Judge Terral and S. to the table and cut each section D. Hanna, asked for more time to and admitted that the one which consider the advisibility of cutting contained the drawn comb was Central Texas off from the balance tougher than the other which conof the state.

#### DATION.

Mr. Bankston in honest investiga- drawn combs are used, and there tion. I think we ought to have are other things which are as obthe truth, whatever the result may jectionable as these. be. I do not denounce men be- In the first place, the bees do cause I do not agree with them, not accept it as readily as they do neither do I denounce a thing as a the old foundation. The fact is fraud till I have tried it and have they had the super nearly full beproved it so to be. I do not wish fore they accepted it at all.

as the aroma sweetness, is in some- to detract from those who are strivway or otherwise impaired as a re- ing to advance apiaculture one feel it my duty to give to the pub-Is not that your experience Mr. lic the results of my experience and let the honor fall where it may.

I purchased about three or four but was interrupted by Mr. Jones, samples of the drawn foundation who continued as follows: "Black from the Messrs. A. I. Root Co., which were about two inches wide Mr. Aten attempted to speak but and about three inches long for put one of these in a section and Mr. Aten appeared as if he want- placed it in a super and it was the it and then cut this one which had a piece of thin foundation in it. The Committee on Permanent and see if you cannot readily de-

The association went one by one tained the thin foundation, and O. P. HYDE ON DRAWN COMB FOUN- then Mr. Hyde continued: Now gentlemen, you see evidence of fish Mr. President:-I believe like bones in the honey, when the

Mr. President, Ladies and Gentle- His investigations have utterly men: The way you have the pro- failed to prove anything. grame arranged has placed me in bugs flying around elm trees at a somewhat awkward position. In night does not prove that honeymaking these contradictory re- dew does not fall from heaven. I marks in compliance with the re- believe honey-dew is caused from a quest of the Committee, I presume mixture of an igniting of certain that you mean for me to contradict kinds or acid with the moisture of everything that Bankston has said. the atmosphere; and, like the dew, In order to do this it will be nec- it falls on the leaves of the trees: essary for me to follow him around and, as it is seen on nothing but moonlight nights, (Laughter.) slick leaves, I suppose that the and amid a swarm of bugs, (Lau- rough leaves are so porous that it ghter.) gnats, flies etc., in order is all taken up before day light. If to ascertain the facts in the case, it is the exudation of insects it must

ascertion that he ever witnessed anything which is digested have exudation of honey dew direct from that pleasant, sweet taste? the bugs, but that he on many occasions saw swarms of bugs around elm trees of moonlight nights, and on the following morning upon examination would find the leaves of the trees sprinkled with bug juice. I am afraid that if I followed him I would be lead into something besides bug juice.

I never had the pleasure of tasting anything as pure and sweet as the dew which we used to find on the hickory leaves in those old states where our childhood was spent. Bankston says it is impure, that its flavor does not excell sorgum molasses. I am almost persuaded that he never saw any at all. Bankston seems to be preju-

CONTRADICTORY BY S. D., HANNA. diced against every tradition hand-Mr. S D Hanna arose and said: ed down to us from our forefathers. Seeing Bankston does not venture the be digested food; and how could

#### Visitor from California.

Mr. J. N. Ingram of San Francisco-who has been on a tour over Southern Texas collecting data on its industries for northern publications-paid a recent visit to the Jennie Atchley Co's., bee ranch to investigate the honey production of this section. He will write an account of the subject for the Country Gentleman of New York. He has visited, and is acquainted, in many bee producing countries in which the SOUTHLAND QUEEN circulates, having explored Canada, Hawaii, New Zealand, Tazmania and Australia. He was highly

[Continued on page 113.]



INTRODUCTORY.

**B** y way of introduction, I will say, that I have been a prominent queen breeder and have sent queens to all parts of the United States; but hard times and a series of poor honey years, have ran me ashore. I am now slowly building up my apiary, and some day I will be in the field again as a beekeeper and queen-breeder. Mrs, Atchley, who is one of my best friends in the "bee-world," has asked me to write for the SOUTH-LAND QUEEN, For the present I will be known as "Bee Crank."

IJ

I have learned from plentiful experience that we can use extra thin surplus foundation in the brood frames, under certain conditions, with perfect safety and at a great saving of money. A full sheet of surplus foundation will fill an L. frame nearly one-half full and will cost about two cents, while a half sheet of medium brood foundation will cost about four cents.

Now, suppose I can only afford to fill my frames half full: the thin will be quite a saving, provided I can make it do the same work as the heavy.

To put the foundation in he

frame lay it in straight and nail it by laying over it a strip of wood seperator three-eights of an inch wide, and nailing it down with ten and three-eight inch flat head wire nails. When the frame is hung in position the foundation will settle into place by its own weight.

Place two or three of these frames in rather light colonies that are building comb and as soon as they have drawn it out it will be perfectly safe to hive swarms on.

Of course it would not do to hive heavy swarms on thin foundation to start with, as the weight would tear it down

I have used nothing but Dadant's extra thin surplus for the brood frames this year and not a sheet is torn down; every sheet is perfect, not a particle of stretching or sagging.

This may be hard on the foundation man, but it may help some poor bee man and make the difference between success and failure.

Mercer county, Ills.

#### VISITOR FROM CALIFORNIA. (Continued from page 112.)

impressed with Bee county as a honey producing region and will no doubt make an interesting and favorable report of its condition and outlook, in his article.



By L. Stachelhausen.

question very much discussed in the last year is: "Do bees gather poisonous honey?" I would rather express the question in a somewhat different form, because it is a well-known fact that it sometimes causes headache. bees, under certain circumstances. will gather poisoned sweets. The am of the opinion; that no nectar question should read: "Do bees of any plant not even of a poisonous they prepair poisonous honey out quite contrary to Dr. Stell's opinof pure nectar of any poisonous ion. plant?"

have never heard nor read of a contains the same alkaloid as the single approved case that the bees sap of the plant, I think it is not had gathered poisonous honey from necessarily so. The nectar is sethe nectar of any plant. I never creted by gland like organs, conseobserved any poisonous honey in quently another composition as the my apiaries; nevertheless I know sap of the plant; it may contain my bees gathered honey from the the same alkaloid but it is not necfollowing poisonous plants in Ger- essarily so. many: Daphne, Mezerum, Atropa Now, we know, that all plants Belladonna and Euphorbia. Here secreting nectar need the aid of inin Texas are hundreds of acres of sects for fertilization and these inmountain laurels quite close to my sects are mainly attracted by the home-apairy and the bees gather nectar. honey from these plants nearly poisonous it would be quite against every year, but I never had any the purpose of the whole organ, poison honey. More than this, I and the plant would die out sooner know of one approved case where or later. little children eat a large quantity A few days ago I read in a Gerof this mountain laurel honey with man bee paper another confirmaout any bad consequences.

preparety of this mountain laurel, but I believe it is the same as is growing in Mexico and Dr. W. M. Stell experimenting with. The was bush is blooming in early spring and in some years so abundantly that the whole plant seems covered with bouquets of violets, and the flowers have the same odor as the violets, but so much stronger that

According to this experience I gather poisonous nectar, or, will plant, will ever be poisonous--

While Dr. Stell takes, without In my practice of many years I proof, that the nectar necessarily

If this nectar should be

tion of my experience. In the I do not know the scientific name "Lagomaggiore," Italy, is an isle

called the "Isola Bella" and there are lost there will always be enough grows (introduced from America) 1734 Kalmia Lostifolia; and from this plant (a mountain laurel) the bees gather honey, but nobody has found it poisonous.

That persons sometimes become ill after eating honey may be traced to a variety of causes. In very rare cases the bees may have gathered poisoned sweets-(poisoned by accident or purposely.) In other instances a person will become ill after eating honey which would be healthy to any other person. I know a lady who cannot eat even a small quantity of honey without feeling indisposed. The same was the case when she ate cakes containing honey, though she was ignorant of their ingredients.

#### EY

#### Mr. L L Skaggs.

How to Mate Two or More Queens in One Hive.

Written for the QUEEN.

Make a strong colony queenless and four or five days after, you can give them queen cells. Put one in each story with a queen excluder between each body and leave an entrance in every body for the queen to get out; leave them on different sides so the queens will not exit by the wrong entrance. Remember the cells must hatch nearly the same day or the last one will be killed. Sometimes I find it a great help to have more than one queen in a hive, so that if some to go round, with a few over.

To replace old ones, I notice in the July OUEEN (page 63) that one of the correspondents remarks that "the mid rib of foundation is never changed in thickness." What an error! What a mistake! If the writer were here I would show him what an error he has made.

I made a quantity of foundation which weighed four sheets to the pound and the bees thinned it until one could hardly tell the difference, when chewing it, from the natural comb. They used the same wax to form the cell walls of and there was enough wax remaining to make the cells. Over half of the foundation was very yellow, and by this you could tell just where the wax of the foundation gave out. When it was drawn one could almost read print through it. A man that was half blind could have told the difference. It has made me believe that it pays to use heavy foundation in the brood frames. The heavy foundation was finished and filled with honey before the thin. Eight sheets to the pound were finished so I gained the honey by using the heavy foundation. If it proves the same way hereafter I will make all my brood foundation four sheets to the pound; that is, for my own use.

Of course it takes more wax to

make such heavy foundation, but I was somewhat grieved at not the extra honey will over-balance getting Mrs. Atchley's queen at that: and then the combs are bet- the Cameron convention. I would ter which are built on these heavy have gotten it if I could have been foundations.

thick and thin foundations.

Llano county, Texas.

August 23, 1897.

#### 

Messers. A. M. Barfield & Son. Written for the Queen.

It has been some time since I gave you any dots from the Free State. I was waiting for something to turn up, and sure enough it has. The long drouth was checked by a nice mild and pleasant rain, during some of my bees to the Dallas Fair the past week, and everything is this Fall. I think I can excell lovely now. The birds are sing- Van Zandt, if not some of the oting sweetly every where, and the her counties, in the way of fine bees are on a boom.

I saw in the last issue of the QUEEN an invitation to send in a report of my successes and failures.

I cannot boast of either.

During swarming season I was successful in one thing, and that was, having a great many swarms issue at one time. I had four out at once, and was successful in hiving all of them. I doubled my Spring count after selling six colonies, and have extracted twice, securing a nice quantity of honey. I have disposed of it all at ten cents a pound.

present without combing my hair.

I should be pleased to hear what I have in use a Solar wax exothers have to say concerning the tractor of my own make, and now my wife is not burdened with cooking the wax out. I could not do without it, and I count it a great success. My strainer--my own make-is also a success. It consists of a sieve in the centre and a sheet of tin to answer for a cover to the can, in which I catch the honey from the extractor.

> Mr. Editor, I think that if not providentially hindered. I will take bees and honey gathers. If I get a blue ribbon at Dallas, it will be some encouragement to Van Zandters, who have just launched out in the bee business, without any experience in that line.

The bees I have are of my own rearing, from a queen that I paid six dollars for.

I find no trouble at all to sell my honey. The only inconvenience is to get my customers to wait until their time comes, or, in other words, until I extract again. My bees have a nice lot of honey now, and I shall begin to extract soon.

there was no honey in it.

Mr. Editor, I will close by asking you to make us a special visit, if you are ever in the Free State or near Stone Point.

Van Zandt county, Texas.

Friend B .: - We thank you for an invitation to visit you and the Free State. If ever we travel nearby you, we shall make it a point to visit you. We are glad to hear that you have made a success with your bees and home-made appliances. You might tell us more about that wax extractor. [EDITOR.

#### Mr. L. B. Smith. Special to the Queen.

SOUTHLAND QUEEN, that Mr. P. J. I know them to be the very best Foster of Throckmorten, Texas, bees that have ever been brought asks if a cross between the Italian to the United States, so far as and Holvland bees would not be honey gathering is concerned. an improvement on the Italian Like our worthy editress. I would bee. etc.? You answer they would be glad to hear from others who and add:

we can see, than Italians, and are very this cross twice in the last twenty easily handled, etc."

your experience has been quite dif- understood that I am not disputing ferent from mine, along this line. I bought a tested Holyland queen cerning the bees. I only wished from you two years ago, and rear- to give my experience as a beeed a number of queens from her, keeper and honey-producer, as I and they were all mated to Italian am not interested in the sale of drones-as I had no other bees at bees in any way, and thought, perthat time-and very few other bees were kept near me. The few that

It is so clear that one can see the were kept, were blacks and hybottom of the cell, just as though brids; so I almost know that those young queens were mated to Italian drones, as their workers would have passed for good Italian bees. so far as markings were concerned.

But when it came to handling them, oh my! No Cyprians, Egyptians or Punics could be worse than these chaps were. Mind you, I handled Cyprians and Holyland bees, in their purity, years ago, when they were first brought to this country by Mr. Frank Benton and Mr. D. A. Jones, so you see I am no novice in the business, and I know whereof I speak, and I could handle these bees as I do the Ital-I see on page 98 of the August ians. I would have no others, as have tried Holyland queens mated The bees are no worse to sting, that to Italian drones. I have tried years, and each time found them I wish to say right here; that to be extremely vicious. I want it anything the editor has said con-

(Continued on page 123.)

#### Mr. J. W. Teft.

In article three, Febuary 1897, The Acme Hive Management for Comb Honey on the non-swarming plan, never quite suited me, there being several errors which caused misleading. I am therefore induced to write it all over again.

It is a waste of time, money, good materials and of the inventor's ability to place in the hands of a bee-keeper who has adopted the system of running in a swarm on starters in brood frames (that is what I call a thoughtlesss system) —a first class bee hive—or in the hands of those who want cheap hives. They will accomplish about the same results with the cheapest and feel just as well satisfied.

A competent bee master, on the other hand, will show his appreciation of a superior bee hive in the care he will take to study out the inventor's ideas, and in the work he will make it accomplish.

I fail to find a good master beeman or woman, for instance, risking the ruination of his reputation by forcing a bee hive to do work it was never intended for.

To know what to do to produce comb honey is good; but to know how to do it is better; to know what, how and why is the best. Success is rising to the level of our best. It is not only the way we do it that makes us master beekeepers, it is the knowing how that excels. Out of every ten dollars paid for a hive, one dollar is for material, and the other nine are for what the purchaser learns. It is knowledge that costs and that is valuable. The number of inches of lumber in a bee hive is a consideration of minor importance, when bee hives go into five figures. How, is what is paid for: and there are few bee keepers who have the ability to learn.

I have been requested by a number of persons who failed to get the February issue of the SOUTHLAND QUEEN for 1897, to give the plan of non-swarming over again; and also, how I manage to run bees for comb honey without swarming.

The secret of my success is the Acme bee hive.\* This hive I have used for the past ten years with remarkable success and the interest I take in it is inexhaustible.

I hope what I have to say to the readers of the SOUTHLAND QUEEN will give them a pure drink from the spring that all have supposed pumped dry.

In the Acme hive the bees, if properly managed, give no indication of swarming at any time. To allow bees to swarm during or before the harvest, takes the strength from that colony. The plan which

\* See March number of the South-LAND QUEEN and examine the drawings. spring with a good queen, and a move all the ripe brood, with bees moderate sized colony, on eight or adhering, and place them on a surnine combs. Place the enameled plus tray (which is on the ground in cloth over them to keep the heat front of the hive. Re-arrange the from escaping. Replace the chaff brood nest so that the combs which cushion to keep the bees warm and contain eggs and unsealed larvæ, the brood from chilling.

egg layer. As fast as things will nine frames of brood combs in the permit, spread the brood, by put- brood nest. ting in drawn combs, alternately.\* I now put on the movable seper-

roomy and is provided with two section frame filled with sectionsdivision boards. the hive proper, but form the mov- thing but foundation must be in able walls of the brood nest-be it these sections. one comb or two or thirteen-the division boards being moved to- snugly to the section frames, and wards the outer sides, as fast as now we have the brood nest fixed empty combs are introduced. III running for comb honey I invaribly plus tray. Thus the brood nest is jump the frames of eggs to the outside of the brood, and place the ber, leaving a space, or rather, a empty combs in the centre of the nest.

Care must be taken not to spread the brood too fast. † When the brood chambers are full, there will be thirteen frames of brood and honey, and an army of workers.

I manage to get the brood chambers crowded with brood and worker bees before the harvest, which commences, with us, about June 20, and closes about July 25.

You see that I now have the bees in prime condition, and ready for the section boxes.

I have adopted. Start in early At this stage of the work I rewill be on the outside, and the ripe Feed each day to stimulate the brood in the centre-leaving but

The brood chamber is wide and ators, one on each side, and then a These are not one on each side. Of course, no-

> Draw up the division boards so that it will be as wide as the surin the centre of ihe brood chamventiduct, on each side between the division boards and the outer walls of the hive. t

I now return to the surplus tray which contains the four or five frames of brood and bees taken from the brood chamber. I lift it up and place it over the brood nest, the ends of the tray resting on the hollow walls of the brood chamber, while the sides rest upon the division boards.

I now put, in the rear end of the surplus frame, a frame of sections, a seperator and then a frame of sections, a seperator, and then another frame of brood, and continue the bottom of the hive, in the venalternately, until there is one frame more of sections than of brood; and walls and the division board. then draw up the movable division board in the surplus tray, snug to elevate it to the sections. Repeat the section frame.

below and also the frames in of the surplus tray, and it is filled the surplus tray, with an enamel with section frames containing seccloth. Remember not to put down tions. Seperators must be between the combs in the sections, as that each section frame and the brood. is a sure invitation to the queen to lay, and the bees to deposit pollen, which would destroy the appearance of the honey. If you have any comb in sections, put them in during the latter part of of the 41/4 x41/4 sections, with nine the honey flow.

We have now a rousing colony of bees, with the swarming fever taken out of them, on nine brood combs, two side starting frames in brood chambers, nine section trames in surplus tray and four to five frames of brood and bees. The bees need no watching, for they will not swarm. The Langstroth section frames I have modified§-they have no seperators attached.

Look, occasionally, and see if the honey is coming in. If it is, add more section frames when the brood is all hatched, that is, in the sections at the close of the season. surplus tray, and the combs filled The feeders, also, can be placed, with honey, remove it, and keep it one on each side of the brood nest, for winter stores; or, extract it or in the ventiduct.

bees and brood; then a frame of uncap it with an uncapping kuife, and stand the frame on its end on tiduct; that is, between the outer The bees will extract this honey and the operation from time to time, Now cover up the exposed brood until all the brood frames are out

> At this stage of manipulation I have nine section frames in the surplus tray, containing seventytwo sections: two more in the brood chambers, containing sixteen more frames of brood and a hive overflowing with bees.

> At the near close of the honey flow, put on sections of drawn comb and unfinished sections, if you have any, in place of the finished sections taken away. I do not remove the sections that are unfinished, but simply hang the feeder in the surplus tray, and feed extracted honey as fast as the bees will take it: or, collect all your unfinished sections in as few hives as possible, and feed until all are finished. This feeding of honey prevents having any unfinished

This ventiduct is one of the be beautiful and useful. many advantages of the Acme What I want to do is, to put beetc.

OUEEN I give an illustration. (in the force which moves men to lafigure five) of the new device for bour, and keeps the world moving making the seperator. It is an Now, to close this long article, I original arrangment, made so as must say, that after running the to be movable and free from any bees as hard as possible during the the same as a frame.

ity is immense. It gives free pas- cent. You will notice this: No sage in any direction for the bees. brood is to be removed from the You will notice the edges of the hive during the first part of the sections do not touch the seperator, honey flow, and none if the bees only at the ends of insides of frame. do there duty, and the queen has

of management for comb honey, been wasted watching for swarms, are the results of thirty years prac- nor loss waiting for the bees to go tice with bees, and is the only true into sections.\* system to produce comb honey,

from a colony of bees in the Acme There are several ways. I will hive, when properly manipulated. All is so very simple. I have no FIRST. You will notice in the honey boards, queen excluders, drawings the place where I put the drone traps, de queening, clipping Porter bee escape. Tilt one end of queen's wings, bees hanging of the surplus tray up high enough out in festoons refusing to work; no to spread over the brood combs the cellar wintering, house apiary, enameled cloth. Let the surplus swarming, or other exploded non- tray down put covers on the hives. sensical things to burden my mind The bees will pass out through the and apiary with. I have nothing in Porter escape into the space bemy apiary that I do not know to tween the division boards and out-

hive system. It admits of rapid fore the readers of the SOUTHLAND manipulation at any time--such QUEEN a cause for which to strive, as spreading brood, feeding, ven- and that cause is the honey bee- tilation' wintering, springing, etc., the enobling daily work of the honey bee art-which will some In the March number of the day put hope in place of fear-as

attachments. It hangs in the hive basswood bloom. I now divide them and make an increase of one I will state further that its util- from one-say one hundred per The Acme hive and its system unlimited room. No time has

An important point of comb I have never had a swarm issue honey production, is in removing. give three that I have adopted.

SEPTEMBER

er walls of hive, and under the di- Excellence in apiculture comes vision boards--home.

better, is without the Porter es- bees and the best system, cape. Do as above with the enameled cloth, remove the division board in the surplus tray, spread section frames, then the bees, finding themselves cut off from the brood nest, will go up and over the top of the surplus tray, down the ventiduct, the same as the first plan.

THIRD. But here is a better way. It keeps the bees from soiling the capping with travel stain.

Fix an old L. Portico hive in this manner: Tack, on the entire front, a wire screen, leaving an opening at the top for the bees to escape. Now, as fast as the bees fin- Written for the Queen. ish the honey, and while it is white and neat, set the section frame, bees and all, in the old L. hive. The bees will soon find would let the readers of the QUEEN their way home-of course they know how I have had some honey have to be covered.

#### CONCLUSION.

be gained by ourselves. King, gallon. They cost sixty-five cents Quinby, Daken, Nellis, Lang- per dozen, which is a little more stroth and others, have supplied us than five cents each, and no freght with facts. But the results, even to pay. I sell a can filled with if they agree with previous ones, honey, can and all, for fifty cents. must be the work of our own ex- It is just the size to suit most town perience. Thrift, pluck, patience, people, and it puts honey down so ability-valuable as they are- anybody can buy it, and our mercome to nothing without experi- chants will handle it, as they do ence.

from fidelity to purpose-from in-SECOND. Another way I like telligent effort to have the best

Erie county, N. Y.

#### NOTES.

\* If you are using non-self-spacing frames, see that they are spaced 11 in. from centre to centre, until the brood chamber is full.

† An article could be written upon spreading the brood combs.

‡ See March, May and June QUEEN, which will give you the ventilation etc. I do not take much stock in side storing except on a medium colony, too weak to tier up.

§ See March number of the Queen.

|| See May and June Queen.

¶ See page 272 of the Queen, 1897.

\*\* See Oueen for June 1897.

#### Mr. Merril W. Smith.

As I have read, with interest, "Marketing Extracted Honey," by Mr. R. C. Aiken, I thought I put up for market.

I had round cans made with one All honey bee knowledge must inch screw tops, to hold one-half not have to break packages.



#### FACTORY AND PRINTING OFFICE OF THE JENNIE ATCHLEY CO.

THE above cut shows one side and one the artist. The boiler room and buildend of our factory. The wagon in front is loaded for the depot, and the driver pipe can be seen. To the right, and through the machinery of this little facis Nick, our 14-year-old. This wagon behind the family, stands the bee-wagon, hauls goods to the railroad, and lumber and just back of that the printing office, of lumber, made into bee-hives and othback. Charles is keeping the mules where the QUEEN is published, and er bee goods. We are now running day quiet, as they did not like to be shot by the printer stands in the door. We are and night, or all the hands can stand.



cans for me.

of extracted honey from nine stands decently when you attempt to hanand have about 300 pounds more dle them. to take as soon as dauger from robbing is over. You see lyland bees, in their purity, are my bees will average nearly one good bees, for the South, and can hundred and fifty pounds to the be handled very well by those who hive. How is this?

ians, three band and golden. Now as vicious as Cyprians. what race of bees can beat the keep black bees with them easily, for as soon as the blacks get a little weak, they rob them out. I have had three stands of blacks. one was robbed, one starved to death and one I still have, and that would be gone, only it is very strong.

I have sold about sixty gallons of honey, at one dollar per gallon.

For fear of the waste basket I will stop.

Cuero, Texas.

#### MR. L. B. SMITH. [Continued from page 117.]

haps it would draw others out and they would give their experience keting honey, which was complied along this line.

I have a Holyland queen mated to advised selling by sample, and putan Italian drone, and the bees are ting honey on the market in small

If anyone wishes I can furnish kind, I have ever had, that I could the tinner's address who made my handle with any satisfaction; so I have some hope yet of getting a I have taken about 975 pounds cross with these bees that will act

My experience is just this: Hounderstand handling them; but My bees are nearly all pure Ital- crossed with Italians, I find them

Now, friends, come forward and yellow beauties? But you cannot give in your experiences, and let us see what the verdict will be.

Lometa, Texas.

#### **BEE-KEEPERS CONVENTION AT** BLOSSOM

#### Full Account of the Proceedings

At ten o'clock the bee-keepers assembled at the college building, which had been previously prepared for the occasion.

The meeting was called to order and W R Graham elected president, W H White, secretary.

As F J R Davenport of Nash, Ellis county, had to leave before the meeting was over, be was called upon to give his plan of marwith in a very interesting talk, de-I want to say before closing that livered in his usual easy way. He as quiet as most Italians are. lots, sufficient to supply the de-But this is the only cross, of the mand, and not be in too much of a is liable to glut it. ibly refuse to work it.

After his interesting talk, he had At this point the convention admeet the train.

be in the right condition, during a or only starters? honey flow? Mr Graham.-I can find but lit-

of room. not for securing straight combs, I

the mysteries. of all the honey they gather.

question.

has its ways for increase. Bees, sible. like other lower animals, are con- Mr. Graham gave his long exson in the matter. When they was very interesting to all. once get under the swarming im- The best honey producing plant pulse they swarm and swarm, and for this country was discussed, sometimes the old stand is entirely and it was thought cotton was the

secreted entirely, or is a part gath- At this point a report was called

ered. It was agreed to have another

Mr. White--Secreted. To test meeting next season, but no officers it, mix other things with the wax were elected, nor place agreed upon,

hurry to get it off your hands. To from which foundation is made, put too much honey on the market and you will find the bees invar-

only time to bid all good-bye, and journed for dinner, to meet again at one o'clock.

FIRST QUESTION Why do not FOURTH QUESTION. Which is bees swarm, when they appear to better: Full sheets of foundation,

Frank Bell .- - They have plenty tle use for full sheets. Were it

W. R. Graham.-Bees have a would have but little use for founstrange way of doing sometimes. dation at all, as the bees usually W. H. White.-That is one of furnish comb enough to take care

SECOND QUESTION. Why do bees Mr. White.-I think full sheets swarm so much after they begin? best for extracting frames, and Mr. Graham .- Another knotty they are sometimes used to advantage in brood frames. Starters are Mr. White .-- Swarming is due to best for sections, for we want just a desire for increase. All nature as little wax in comb honey as pos-

trolled by instinct, and do not rea- perience in bee keeping, which

depopulated. best we had here, but honey plants THIRD OUESTION. Is bees wax were according to locality.

ered? for, which showed 541 colonies re-Mr. Graham .- According to my presented. All expressed themknowledge it is secreted. selves well satisfied with their Mr. Bell.-I think a part is gath- yield of honey this season.

#### SOUTHLAND QUEEN.

but notice will be published in time for all to get ready.

We expect to have a very interesting time at our next meeting.



One of my colonies, that occupied three well filled frames, swarmed out and went into a ten framed hive. They left eggs, hatching bees' and honey. could not see what caused them to leave, as nothing could be seen objectionable about the hive. What was the matter L E HODGES, Sycamore, with them? Florida, Sept 3, '97.

[We often have small colonies leave their hives and enter others. honey dearth, when the queen has some as low as one pound. The rest.

21 Mrs. Atchley, how many bees make a

pound, and how many pounds will it

take to make a prime swarm? When

vou send queens out by mail do you

send them alone, or do you send workers with them? Do you think the A B C of Bee Culture the best book for a beginner to study? MRS MC WINSLOW. Cold Hill, Texas, Aug 30, ,97.

[About 3500 bees filled moder-' ately with honey will weigh a pound. This we ascertained some few years ago when procuring bee stings. We could take a frame out of the hive, and weigh the frame, bees and all. When the bees were all used off we would weigh the frame, and as near as we could find out, the above number was the result. We took the bees into a closed room and none were allowed to escape. Four pounds will about average a prime swarm, or will about average the swarms we have come out in this and the cause is more likely to be locality. Some swarms have been a very proliffic queen, After a known to weigh ten pounds, and had a rest, all of a sudden new large ones were extra large, and honey comes in and the queen is the latter small after-swarms. We stimulated to the highest pitch, always send a few worker bees and wants to spread her brood along with the queens, from eight nest faster than she has bees or to twenty, according to the distance room to do so, and all become dis- and the time of year. We often couraged and swarm out together. send thirty workers with queens The worst time for this to occur is by mail to Australia. and when right after a honey flow begins, the weather is cool we send bees when the bees have had a long to keep the queen warm, and to protect her, if exposed to cool In the hottest weather nights. we send as few as six with each queen in the one cent Benton cage. Yes, I would consider A B C of

125

Bee-Culture one or the best books print such reports verbatim, or for a beginner to study. they should do so; but it was likely

#### J

What is the best method to use in keeping ants out of my hives? The ants have ruined one colony, and I am afraid they will kill more. F J ERNEST, Sugarland, Texas, Aug 22, 1897.

We have not had the ants to bother us very much, only sometimes when some nuclei get weak they will enter and take away the honey. We have placed the hives on stands with legs, and placed the legs of the stand in water, and kept them out, but this is a great deal of trouble. We have lately visited a bee-keeper who uses coal oil to keep the ants away. He uses a little mop made of cloth, wound on a stick, soaks it in oil, and mops all around the hives and barrels where the honey is kept. We have lately been killing out ants with Bisulphate of Carbon. Pour the medicine right into the ant nests, and touch fire, and as soon as the match is applied, cover up with a wet rag; and this will kill them,

1

Mrs. Atchley, will you please tell me why the names of Willie and Mr Atchley were left out of our Central Texas report, which was publised in the A B J? I have met several of the members, and they requested me to write you about it. Did the Secretary forget them?

John Cairns, Chriesman, Texas, 8-24-'97 [Likely it was the fault of the Secretary, as the journals usually print such reports verbatim, or they should do so; but it was likely over-looked in some way. Call your Secretary's attention to it and see.

Mrs Atchley, I take the liberty of asking your opinion of the Acme hive discussed by Mr. Tefft in March, May and June QUEEN. I am just beginning to handle bees and would like to adopt a good hive and stick to it. First cost would not be so much in the way, if the hive is a non-swarmer. G E Hadder, Mitchellville, Iowa, 9-3-'97

[We have not yet tried the hive that Mr. Tefft describes, but as Mr. T is one of York states most successful apiarists, and an old time bee-keeper, we are sure he knows what he is talking about, and think if such hives are a success in New York, they would also be in Iowa. We believe that Mr. Tefft does not offer hives for sale at all, but likely he would furnish a pattern to anyone wishing to try them. We will try to test them in this locality in the near future.

Mrs Atchley, would you advise replacing queens two years old with young ones? What hive would you recommend for the production of comb honey? I would like to use a hive to prevent swarming as much as possible. Would you advise the clipping of the wings of queens to prevent swarms from absconding? I am a new beginner, and have three colonies in ten framed simplicity hives. J T Elliot, Colliers, W Va, 8-14-'97

[I would not advise replacing. queens as long as they are doing good service. I have often tried the plan of requeening every year, and find that queens are just in their prime in their second and third years, and it is folly to destroy them, much more its a great loss. I know that it is said that colonies with old queens will swarm more than those with young ones, but this is only a sign that the queens are prolific, and I do not wish to supersede a queen as long as she is prolific, no matter what her age may be. I would advise you to continue the ten framed hives as you have them already. There is so little difference in eight and ten framed hives as to results, you will do well to use the, same kind you have, which will save you trouble. The ten framed hives will likely be better to keep down swarming than the eight frame. We usually keep down swarming by the use of the extractor, and by giving plenty of room; but this does not prove to be sufficient some seasons with us, but ordinarily it does. No, I would not advise clipping the wings of queens to prevent absconding, as the loss is as great or greater, by the loss of queens, and then when the old clipped queens are lost, the swarm will remain a few days till a young one hatches and swarm anyway, and so but little good can come by clipping if any.

# THE Southland QUEEN. Published Monthly.

E. J. Atchley, Editor and Business Mgr. — Assisted by —

Willie, Charlie and Amanda Atchley. Mrs. Jennie Atchley, Ed. and Manager of School for Beginners.

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Entered at the Post Office at Beeville, Texas, for transmission through the mails at second class rates.

#### BEEVILLE, TEXAS, SEPTEMBER '97.

#### Frauds.

WE wish to call our readers' and friends' attention to the name of the Bayou City Commission Co.,

of Houston. This firm orders factory is running at high speed, ple, and when such goods are sent behind. straight, they are taken out, and the owner hears no more from them. When goods are sent c. o. d., no attention is paid to them.

One of our neighbors sent them a shipment of honey, c. o. d., and when it was not taken out, investigation showed there was no such firm in Houston-only a chicken peddler.

shipment of honey to a supposed come draped in mourning. firm in Laredo, Texas, by the name loss of Mr. Hutchins' sweet little of Scratchley & Co., and nothing five-year-old girl, and the woundcan be heard from the honey nor ing of another by their own mother, the firm.

any such swindlers, let us know, afflictions. and we will give them a free 'ad.'

and still three-fourths of what good Indies, are our authorized agents, matter we have is held over. Ne- and subscriptions through them ver mind, we will get to all of you are acceptable with us. bye-and-bye.

Bee-keepers Association's report sixth of this month, where he went in this issue; also, see report of to take charge of his bees. He Lamar County Association. might be called a convention num- hours on the wheel. He reports ber.

WE show our readers a glimpse the bees beginning to store honey. of our factory in this issue. At'10

honey and other produce from peo- and we are yet one hundred hives

WE have had rather to anuch rain lately for the bees to do well. but it has quit to-day and the bees make good use of the sunshine.

THE North American Convention is over, We learn a good time was had there, and a large attendance.

WE were very sorry to see the Again, another neighbor sent a September number of the Review The was a shock and a great burden to Beware of sending honey, or our Brother Editor. May the Lord anything else, to unknown parties. bless and comfort Mr. H. and be-If any of our readers run across reaved ones, in their sad and deep

The Jamaica Bee-Supply com-WE add extra pages this month, pany, Mandeville, Jamaica, West

Willie left on his bicycle for We conclude the Central Texas Pearsall, Texas, on Monday the This made the last 67 miles in seven splendid rains in Frio county, and

WE have just received a sample o'clock to-night, September 15, the of very fine lime honey from Mr.

has taken a large crop and has sold ed and to make all lovely around all but sixty gallons. His honey her is as fine as any we have seen anywhere. His report will appear in the October QUEEN.

WE have just enjoyed a pleasant visit from Mr. W. W. Williams of Fannin, Texas., He brought along a jar and a section of fine horsemint honey. Mr. Williams has harvested a large crop of honey and sold it all in his home market. He has one hundred and twenty five colonies, and expects fall swarming to begin soon.

THERE is a duty of 20cts per gallon levied on honey sent to the United States from any foriegn country.\* This will bring foreign honey down to 30cts per gallon, to compete with our American product at 50cts per gallon.

William Minad

#### A New Queen

arrived at the home of Mr. N. P. Doak, Boxelder, Texas, on the 8th inst. A girl-their first-and Friend D. has this to say about it:

It is the prettiest and sweetest in the state.

May the little "queen" be the means of keeping the home of the Doaks sweet, prove a great bless-

\* See page 10, schedule G, an act of Congress, March 15, 1897, known as the Dingley Tariff.

C. M. Smith, Lake, Texas. He ing to her parents, lived to be lov-

#### Plants named by Dr. Howard.

The plant sent to name by Mr. Lee Elder, Biloxi, Miss., is the tallow tree of China, (Stillingia sebifera.) It is native in China but has been introduced in the Southern states for shade and beauty, and is now thoroughly naturalized in many localities. A useful wax or vegatable tallow is obtained from the seeds. Dr, WM. R. HOWARD.

ON page 96, of the August issue, the words "Cyprian department" should read "Aprian department." It is in the third line from the foot of the first column.

and have the main of

WE have just received a letter from Mr. W. R. Graham of Greenville, who has been on the sick list nearly all summer, but who is now improving and expects to be here at our next bee meeting, the first Wednesday and Thursday in November. He reports a splendid trade this season and now enlarging for the 1898 trade.

Mr York, on page 537 of the A. B. J., tries to hang us, but the rope is not tight enough yet. We mean to say that the Syrian, Cyprian and Holyland bees are the same as to characteristics. They build

and an and a

SEPTEMBER

comb alike, work alike, swarm alike, sting alike, cap their honey alike and are alike, with a very slight difference, in color. Tell us where and why they are not alike.

We know some people can hang themselves with a shoe-string. But, if we were about to choke, would Mr. York pull tighter or loosen the rope?

It seems real unfortunate that Mr. York has been throwing mud at us and others for a year or two past, and it is evident that more has spattered in his own face, than those thrown at. When Mr. York builds himself up trying to throw others down will he let us know?

We have three good men on whom we rely for the purity of the bees we have, and when necessary they can be called in the ring.

For Sale CHOICE Full colonies, \$5; Nuclei, \$1 per frame. QUEENS IN THEIR SEASON. Also a Full Stock of the B. TAYLOR HANDY BEE-KEEPERS' Supplies Send for Catalogue to F. A. CROWELL, Granger, Minn NO CHEAP QUEENS TO SELL BUT THE BEST Golden or 5 and 3-band Italians From Imported Mothers. Untested, 75c; Tested, \$1. To Orders filled the same day received BOX 613, Tex.

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eets at Beeville, first Welnes day and Thursday in Nov., 1897. No hotel bill to pay. G w HUFSTEDLER SECV. Beeville, Texas.

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**ROOT'S GOODS** Before placing your order for this season be sure to send for Root's 1897 Catalog ready Feb. 1. Our 1897 hives, with improved Danzy cover and improved Holfman frames are simply "out of sight." Acknowledged by all who have seen them to be a great improvement over any hive on the market of last year. COMB

Cheaper and better than ever; clear as crystal, for you can read your name through it. Process and machinery patented December 8, 1896, and other patents pending. FOUNDATION Samples of the new foundation free.

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The **B**eekeepers' **R**eview for December, 1836, contains a double page illustration of four out-apiaries located near Flint, and managed by one man for comb honey, with almost no help. A portrait of the owner, and a description of his methods are also given. There is also a fine picture of bees secreting wax and building comb made from a photograph taken by the editor. Mr. Taylor has a long article on hives. There is the review of foreign journals by F. L. Thompson; Hasty's three-page review of the American journals; the usual extracts and editorial comments, etc.

The Review is \$1.00 a year, or 1.25 for the Review and the book, "Advanced Bee Culture;" 1.75 for Review and a fine tested queen-the queen to be sent early in 1897. New subscribers get the December issue free.

W. Z. HUTCHINSON, Flint, Mich.

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SOUTHLAND QUEEN.

SEPTEMBER



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HONEY

XTRACTOR

Now is the time to begin to prepare for the next season. It is best to order early and then you will have plenty of time to get in shape for the harvest when it comes.

Our 1897 catalogue is now ready. Write for it. It gives full instructions in Bee Keeping. The fact is, it is a complete book on Bee Keeping. FREE.

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