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THE BEE KEEPERS' REVIEW for December has four tra pages — twenty in all. Upon the first page is extra pages — twenty in all. Upon the firs a brief history of the REVIEW; also an excellent

PORTRAIT OF ITS EDITOR.

One of these beautiful Ives reproductions. The special topic of this issue is: "Sections and their adjustment on the Hives," and it is handled by such men as Jas. Heddon, Dr. C. C. Miller, R. L. Taylor, Onver Foster and Dr. G. S. Tinker. A copy of this issue will be cheerfully sent free to all who apply.

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Although this neat little book contries only 45 pages, it furnishes as much practical, valuable information as is often found in a book of twice its size. It is 'boiled down.' It begins with taking the bees from the cellar and goes over the ground briefly, clearly and concisely, until the honey is off the hives; touching upon the most important points, and especially does it teach when, where and how found tion can be used to the best advantage; when combs are preferable and when it is more profitable to allow the bees to build their own combs,

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THE CANADIAN BEE JOURNAL.

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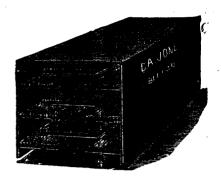
FOR Sale—I Barnes foot power circular saw, as good as new; price \$40. Also 4 honey tanks, hold 550 lbs each \$2.50 each. Edward Lunau, Buttonville, Ont.

HONEY.—We can take all that offers in ex-change for supplies, at prices found in another advertisement in this issue. THE D. A. JONES CO., Beeton, Ont.

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THE D. A. JONES CO., LD. BEETON, ONT.

THE AMERICAN APICULTURIST

Will be mailed from Oct. 1 1888 to Jan 1 1890 for 75 cts Will be mailed from Oct. 1 1888 to Jan 1 1890 for;75 cts.
The editor has had 30 years experience in rearing
Queens and practical Bee-keeping, and now proposed
to give the result of that long experience in a series of
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appear in the Nov. 1888 issue. The details of a new
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"THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER."

Vol. IV. No. 41

BEETON, ONT., JAN. 2, 1889.

WHOLE No. 197

EDITORIAL.

ANAGER T. G. Newman is out with the fourth report of the National Bee-Keepers' Union which has successfully defended the Arkadelphia case and has the 'Rich' suit in hand. The defense of these lawsuits costs considerable, and as they are for the united benefit of the profession in general it behooves all bee-keepers who have the welfare of the pursuit at heart to join hands with the Union. All dues are now payable at the beginning of the year.

Would it not be well for the O.B.K.A. to discuss and devise some plan of drawing Canadian bee-men en masse to Brantford for the coming National?

Our contemporary the American Bee Journal has completed its twentieth volume. It is a paper in which there is always something of value, and it has done more for the advancement of apiculture and exposure of lies and humbugs concerning the industry, than any other bee periodical. It occupies a field peculiarly its own and "the old reliable" has our sincerest wishes for increased prosperity.

The bee-keeper's time of leisure should permit of his attending the Convention at Owen Sound next week. Apart from

the convention there is much to see and admire in Owen Sound, Canada's next coming city. Here are the only steel ship-building yards in the Province, and numerous other points of interest, and no town offers as many attractions and comforts. We would like to see a grand turn out.

For the CANADIAN BEE JOURNAL.

A LOOK AT MATTERS INTERESTING.

HE CANADIAN BEE JOURNAL, as live as ever, issue of November 28, is before me, and I feel inclined to review [some of the interesting things contained therein.

MR. IVAR S. YOUNG'S OFFENSE.

On the first page ye editors join in the call on Mr. Young to "take back over his own signature his statements regarding the bee-keepers of this continent, etc." No doubt Mr. Young will be surprised to learn that he has offended "the bee-keepers of this continent." If I understand the matter, Mr. Young, when in a controversy about bee-hives, asserted that certain persons living on this continent, not exceeding a halfdozen names, had formed a "ring" to popularize a certain patent bee-hive. Now it occurs to me that while these gentlemen are an honorable part, they are by no means "the bee-keepers of this continent." But if the gentlemen are aggrieved at Mr. Young for his plainness of speech, and demand retraction on his part, that is their business, not ours. We think, however, that no impartial reader can review our bee literature from 1884 to 1887 inclusive without feeling that Mr. Young, who is no doubt acquainted with what has been written, drew his own deductions as naturally as "rolling off a log." In politics, and in other relations among men, when we see a half-dozen persons, more or less, all saying the same thing and all pulling in the same direction with a view of controlling public sentiment, we call that a "ring," and justly too. No doubt since the aforesaid bee-hive has failed to "revolutionize bee culture," and has ingloriously gone down beneath the patent bee gum rubbish of the past, a little soreness is left behind, but it will not help matters to kick, never so vigorously. "What is written is written."

WHO IS DANIEL M'FADDEN?

Who can vouch for him? Don't all speak at once! It has been a clear case to me from the beginning that some wag of a fellow has been amusing himself at the expense of the public over the name of Daniel McFadden. The undisguised extravagance indulged in by the author of this trick ought to send his articles to the "waste basket." We may admit that it is lawful to write fiction, but no man is justifiable in writing lies and palming them off as facts.

DR. MASON'S OBJECTIONS.

Ye editors want to lick Dr. Mason because he objects to fictitious writers, when writing on bee culture. In this the Doctor has my sympathy. When we read the news we are satisfied with the news, we don't care for the name of the writer. But when it comes to discussing scientific and practical subjects, we want to know who the writer is, and we have a right to know.

PURE HONEY OR HONEY IN THE COMB.

Mr. Pringle's remarks on this subject, found on page 709, ought to be heeded by all beginners in the bee business. Only a very few bee-keepers can succeed by producing their honey all in fancy shape. It has paid me to produce both articles in nearly equal proportions. It gives me a wider and freer sale for my honey, and adds to the number of my customers, to say nothing of the chances it gives to increase the yield of surplus, in unfavorable seasons.

BEES AS WEATHER INDICATORS.

What a power over the minds of the professors is the things romantic connected with bees. Perhaps Prof. Emmerig has not lived as constantly and as long in the apiary as some of the rest of us. I have seen my bees miss it woefully as "weather indicators." I have seen them driven to the ground by sudden showers and gusts of wind, and have seen them hurry to the hives with wonderful energy when the alarm was a false one. I really enjoy the sight when my bees make a sharp race, like harvest hands,

with a summer shower. I have seen the air darkened about my apiary with a cloud of bees as they rushed pell mell through the falling drops of rain to the entrances of their homes. I once noticed that my bees were working in mass in a certain direction from my apiary, and a sudden rain and wind storm took its rise near by and moved rapidly in the direction that the bees were foraging, and the bees had to face the storm in their flight for home, and the struggle was exciting indeed. Clouds of heavily loaded bees when they had nearly reached the apiary were driven back and swept to the earth. They arose with desperate resolution time and again, to be dashed about by the wind. I was quite sure that I lost swarms of workers by that sudden storm.

MOISTURE IN BEE CELLARS.

This question as it has been discussed is a curious one. No living thing, I believe, can exist without moisture. It seems to me that the knowledge sought for is what excess of moisture above that of normality becomes injurious to bees in winter confinement. By my experiments of last winter I found that a healthy colony of bees would become loaded with a watery fluid in their intestinal canals in about ten days when subjected to a low temperature in a very damp vegetable cellar, and that I could drive the surplus fluid from their bodies and reduce them to natural size in about six hours by subjecting the bees to a temperature of 85° or 90° with the hive stripped to the wire cloth cover over the frames. The rapidity with which bees dis-pose of surplus moisture under favorable conditions by the process of exhalation is a sufficient explanation why one colony will survive while another apparently in the same condition will perish by reason of forced retention, called diarrhœa. The so-called diarrhœa in bees is not a disease. Retention of the faces in confinement is natural with bees, and they possess the power of retention to a very high degree, and if this was not so the life of the bee would be restricted to a very limited portion of the earth's surface.

QUEENS MATED LATE IN THE SEASON.

I was of the impression that it was well understood by all experienced apiarists that queens may be mated so late in the season that no brood is reared from their eggs till the latter part of winter or till spring, depending somewhat on the climate. But since Prof. Cook seems to be in doubt about the matter, perhaps many others may have failed as I have in these matters. Scarcely a fall passes that I do not have one or more young queens mated too late in the fall to rear brood. By close observation it will be found that such queens lay a few eggs which are neglected by the worker bees. The "chyle feeding" has nothing to do with it." There is a time and a season to all things," etc.

G. W. DEMAREE.

Christiansburg, Ky.

PRACTICAL BEE-KEEPING.

BY D. A. JONES.

PAPER IV .-- CONTINUED.

WAX, COMB AND FOUNDATION.

FOUNDATION SAGGING.

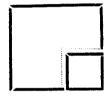
Unless foundation is made heavier than is profitable it will usually sag and the causes of this sagging are heat and the weight of the bees. This is especially the case with deep frames. Naturally the higher the temperature the less weight will be required to stretch it, and when the bees cluster on it before it is drawn out stretch it must. To avoid this sagging some apiarists use fine wire to Support the sheet, but I know of no simpler way than that given by Mr. G. W. Demaree on p. 307, vol. IV, CAN-ADIAN BEE JOURNAL: "I have discovered a new plan to so strengthen sheets of fdn. that they will hold up swarms Without the assistance of the wire nuisance. If you will cut a sheet of idn. in two and then lap the edge about one quarter of an inch and weld the edges together with a stiff putty knife in the same way that the sheets secured to the top bars by the mashing Process, the thick rib in the centre will Prevent the sheet from stretching or sagging and the bees will work right on Over the rib and make the combs as Perfect as if no thick rib was in the Way."

FASTENING FDN. IN FRAMES

Hot wax dropped on cold wood may be easily peeled off, cold wax dropped on warm wood will melt slightly and incorporate with the wood, adhering tenaciously. This is one thing to keep in view in placing foundation in frames. Have the frames warm, either from the heat of the sun or otherwise, lay the wax on the top bar, press it first in the centre and then at the ends, when two long strokes with a thick, rounded wooden knife will cause it to adhere. Mr. G. M. Doolittle uses melted wax as a cement, applying it to the top bar and edge of fdn. with a small brush. L.McKnight follows a somewhat simi-

After fixing the foundawith the saw. tion in this groove he runs melted wax on each side until the cut is filled, keeping the frames warm during the work by contact with a hot brick.

A simpler way of fastening brood foundation in the frame is by the use of a properly constructed top bar. This latter is usually seven-eighths inch square between the shoulders. Cut out one quarter as shown in the cross-



section herewith, preserving the cutting. Then prepare a board one-half of an inch thick and of the proper inside dimensions of frame, which tack on the table or work bench. Place the frames to be filled over this board, when the bottom inner edge of the top bar will be just even with the surface of the board. On this lay the sheet of fdn. with the top flush against the edge of the top Tack the cutting back into its original position with three three-quarter inch wire nails and the fdn. is firmly and truly fastened.

WIRING FRAMES.

A majority of the foremost American apiarists wire all their brood frames. Unless sent out by the manufacturer already punched small holes are made with a bradawl in the top and bottom bars from two to three inches apart. Through these holes is threaded a small tinned wire (No. 30). The fdn. is laid on a board made to fit the inside of the frame, the wired frame placed over it and the wires embedded in the wax by means of a tin device made for the purpose. This should be done in a well warmed room. The wire is sold in spools from 1 oz. to one pound. There is ar plan. On the underside of the top nothing in this operation apparently bars of most frames a groove is made difficult and yet it is one thing which

occasionally vexes the spirit of the amateur. Mr. R. Knechtel, of Walton, Ont., has mastered the troubles in this connection and he thus gives his mode of dealing with them:— Perhaps the wire unrolls too quickly, and the loose part slips over the ends of the spool; or the frame holes may be poorly punched; or the wire kinks and breaks; and then the young (and sometimes old) bee-keeper may realize that "things are not what they seem. To remedy these evils, see to it that the frame's holes are smooth.

SMOOTH HOLES

can be procured by awls, (a) chisel pointed; (b) set to cut across the grain of the wood; (c) made of steel wire filed to suit and fitted in metals from shoemakers' awls; (d) should descend vertically and rise in the same plane; (e) five awls may be worked at once, thereby punching a top at one drop of the foot. S Slipping of frames should be prevented by tacking short short strips of wood upon the Spools should be on a wire and prevented revolving too rapidly means of a thin strip of wood, tacked at one end to the table; the other end resting lightly upon the spool. The strip also prevents the wire slipping over the ends of the spool.

KINKING OF WIRE

can now be prevented by screwing empty thread-spools to the table at each end of the frame. Place the thread-spools a little from the frame between the holes as needed. For five strands three are sufficient. To tighten your wire tack the threading end; with one hand hold the wire between the wire-spool and frame and draw, as draw, as you remove with the other hand, the wire from the thread-spools, commencing at the attached end first. Complete by the usual way.

FASTENING FOUNDATION ON WIRES.

Several methods have been advocated, some, no doubt, serving the purpose very well. The following will be found efficient, simple and speedy: See that your frames have a neatly-fitting, solid and level wiring-board, and your fdn. is of proper temperature.

WIRING-BOX.

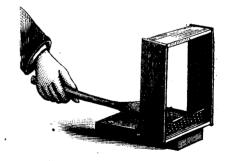
Around a piece of hard wood (oak) well seasoned, $2 \times \frac{1}{2}$ in. and as long as your wire between the bars, wind a soft wire tightly (one-eighth inch is a good size), having the laps one-half inch apart; keep this damp when using. Place the edge of the wiring bar on each wire and by a gentle tap from the hammer the work is completed—if the the other joints were not neglected."

USING STRIPS OF FDN.

In cutting up foundation to suit the size of customers' frames the mauufacturers usually have a number of pieces left over, and the apiarist will occasionally also have these on hand. They can be used as "starters" or placed in strips in a frame. The bees will attach them the same as if it was one full sheet and there need not be the slightest waste in this respect.

FASTENING FDN. IN SECTIONS.

Foundation for sections is cut into strips the width of the section, and is generally fastened to top of section only. Several handy implements have been devised for doing this work rapidly and well. The "Parker" the construction and mode of operation as shown in the



illustration, is worked by hand; the "Gray" is operated by foot power. The latter is claimed to be the more speedy, but Ernest Root tells of a girl in their employ who can average 3,000 a day with the Parker, and on occasion can put foundation in 1,200 sections in an hour. Though bee-keepers who produce comb honey on a large scale, will require something more speedy perhaps, I think that for all ordinary uses, the "Parker" will be found as handy and complete as any machine method, besides being but a trifling cost as com-

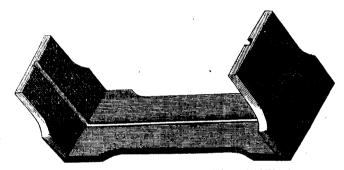
Pared with others which I shall illustrate and describe briefly. Supply men have exercised their ingenuity to save the bee man trouble and at the same time make the fixing of the foundation sure.

Sections grooved on all four sides were brought out by the D. A. Jones Co. on the suggestion of the foreman of the apiaries, simultaneously with their ap-Pearance in England from the factory of T. B. Blow, and I believe this method will be practiced very largely by beekeepers in the future, as full sheets of foundation are used, and pop-holes are absolutely prevented. But English bee. split side bars dovetailed top and bottom,

split top is not a new idea, but the angling cut decidedly is, and the inventors claim that twelve sections can be filled with fdn. in one minute.

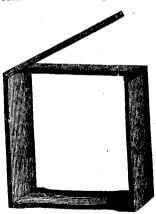


Mr. Lee, another Englishman, uses



THE JONES GROOVED ALL ROUND SECTION.

keepers and supply dealers have tried other ingenious plans. Messrs. Abbott and Southall make a section the top of which is cut at an angle, with a cutter which leaves the top of cut longer than the bottom thus forming a dovetail for



The right hand wax when inserted. half is left unfolded, and when the foundation is inserted it is forced into place

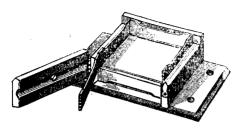
the foundation being securely held when these dovetailed pieces are pushed into place. The accompanying cut shows distinctly what is meant.

Blow's grooved all around sections are also illustrated. The groove is three thirty-seconds of an inch deep and an eighth wide. As with ours the



foundation is cut the exact size and inserted as the section is being folded.

A combination of the Blow and Abbott inventions was devised by Mr. J. H. Howard, of Holme. The device shown in the illustration is secured to a bench or table receiving a section cut as shown; on the centre bar the foundation is guided into the three grooved by simply closing the top half. This sides of the section, and the upper half of top bar, which is cut an angle of 45°, is brought into place by the hinged door block.



Still another plan is put forward by Mr. W. B. Webster, of Binfield. Three sides of his section are in halves, the third sufficiently pliable to form a hinge. These halves form jaws when pressed apart after folding and in these the foundation is placed.

None of these are in common use but the grooved all around is steadily gaining in popularity, the slight extra cost in the first instance being more than recouped in the saving of time.

PROPOLIS.

Propolis or bee glue is a by-product of the hive of no commercial value. is gathered by the bees from resinous trees, the balm of gilead furnishing nearly all in this locality, but paint, old hives and quilts, or pieces of wax will be laid under contribution if left about the yard. By placing a broken branch of balm of gilead in the apiary you can observe the bees harvesting the oozing resin. Nothing that I know of has so much "sticktoitiveness" as propolis; when warm it is soft and pliable, but when cold it is very hard to remove. The bees use it as means of protection, sealing every crevice and crack against the wind, and will thus close a hole an inch in diameter. They strengthen the combs with it and use it as a varnish for the cells.

For the Canadian Bee Journal.

Bees Dangerous Near a Highway.

EES have ways of their own of doing business and some of their ways seem past finding out. They have but little respect precedents, and when they take a notion they do some queer things, and we don't always know just when they are liable to take a notion unless we have studied their habits very closely and then we can't always tell. For this reason

I think it unwise to teach people to court danger, especially with regard to placing bees too near the public highway. We should not try to see how near a precipice we can stand and not fall over. Friend Jones says on page 668 that bees may be placed within five feet of the public highway without interfering with travel or troubling anybody, etc., provided there is a fence or trees between the bees and the road. This may be true in his experience, but there are others whose experience differs greatly from his in this respect. Brother Pringle thinks, too, that the editor is admirably straight on this point, but I can't help saying I don't believe either of them have made as straight a line on this point as my bees have often made for people going along the highway, and my apiary is 112 feet from the centre of the highway with four rows of large apple trees between the bees and the road, yet some of my neighbors have complained that my bees' feet were rather too hot for both them and their horses, especially those two middle feet and those two middle legs on which friend Jones says the pollen baskets are for carrying pollen. Two horses have been stung to death within a short distance of here, one of them quite recently, and in this neighborhood, the past season, a whole family, while driving along the road, barely escaped having a swarm of bees alight on them. My bees, though shaded as I have described, stung a man four times who was mowing on the further side of the road from them, some 300 feet down the road and drove him from the field. I was away from home at the time and my bees seemed very quiet, in fact I do as little to irritate them as possible. I could fill many pages with such stinging incidents, but these are enough. Many a ship has run a blockade and not been sunk, but some have been sunk. I have passed a certain apiary, about six miles from here, scores of times without ever being stung, but there was a horse stung to death shortly after I passed and it just happened to not be mine. The public highway should be guarded zealously by every fair-minded man whether he keeps bees or not. and no person has a moral or lawful right to compel the public to run a guantlet. I don't want a vicious looking dog to bark close to my heels, no matter if his master says, as he usually does, that the dog won't bite. I know better, for I have been bitten by them. I have tried as much as any person, perhaps, to convince my neighbors of the innocence of my honey pets, but when a bee, without any apparent cause, gets on his ear, walks out on his dignity and drives a man from the hay field simply to satisfy that pet nature which the sweet insect possesses, or

because the man or horse is sweaty, then it is time to look on the other side of the question. People only want what is right, and the question is, do bee-keepers want the same. If we do we will not menace the public with a real danger, and then, because they kick, try to make them submit by force of law. There are many un-Written laws that are just, and as long as people Obey them there is no need to have them written. But when we overstep our bounds, then public Opinion, which is the author of all law, will cause them to be written, though we may combine and carry our point by law; still we are by this very course creating a sentiment in the Public mind that will in time culminate in the Passage of laws that it will do no good for beekeepers to kick against. There is land enough to keep bees on, and I can't see a shadow of reason for teaching people to crowd their bees close to the public highway.

JOHN F. GATES,

Ouid, Erie Co., Pa.

O.B.K.A. CONVENTION.

The Owen Sound Convention meets next Tuesday and Wednesday, and we trust there Will be a grand turn out.

PROGRAM.

Jan. 8th, 2 p.m.—Appointment of Com. Management.

Minutes of last meeting read. Secretary's Report.

Treasurer's

Auditors' Affil. Soc.

Jan. 8th, 7 p.m.—President's Address. Paper by Mr. S. Corneil, on

Ventilation of Hives for Winter, and discussion on.

Business Recom. by Com.

Jan. 9th, 9 a.m.—Election of Officers. Paper by S. T. Pettit, on Priority of Location and dis-

cussion on. Other business as recom. by Com.

Jan. 9th, 1 p.m.—Deciding on next place of Annual meeting.

Paper by A. Pringle on Bees for Pleasure and Bees for Profit, and discussion on. Other papers and necessary business.

From the Bee-Keepers' Review.

SECTIONS AND SECTION SUPERS.

EE-KEEPERS are steadily approaching a standard section honey box-the onepound. The tendency is also to a uniform size, the 4½ x 4½, and also to have a uniform width, the 17. Such a section, having

open sides, and used with separators, will average one pound in weight.

It appears to be well settled that as much comb honey can be secured in the one-pound package as in any larger size, and since the onepound is the most popular in the markets, it is likely to become a standard, as all other sizes of sections are gradually but surely going out of use. This fact is shown by the steady and increasing demand of supply dealers for the one-pound packages.

It is well known that the linn or basswood is the only white timber from which one-piece sections can be made. It is also largely in use for this purpose, which is the more unfortunate. as the basswood is one of the best sources of honey for our bees. It is not an exaggeration to say that when this tree as it now stands in the large forests is destroyed that the production of honey will become unprofitable, unless artificial pasturage can take its place, which is doubtful. The rapid and increasing destruction of the basswood is already causing serious apprehension in the minds of many of our best bee-keepers. Mr. H. R. Boardman, whose foresight and ability none will question, stated to the writer not long since that the basswood in his locality was rapidly being cut down and used for sections. It was a question of only a few years when this source of nectar for his bees would be destroyed, when he doubted if bee-keeping would not cease to be profitable. And I find that this same estimate of the value of the basswood to bee-keepers is held by many others.

At the present time bee-keepers are the largest consumers of the basswood, and every man who uses the one-piece section is encouraging its further destruction. It seems to me that such bee keepers are standing in the way of their own future success, when self-interest should discourage, as far as possible, the cutting down of basswood timber. Bee-keepers should guard with jealous care the trees yet standing in their localities, and in many instances valuable trees may be spared with proper effort.

If the one-piece section had any great advantage over the four-piece dovetailed section, in the way of obtaining a larger surplus, there might be some justification for its use, but no such advantage exists. The only advantage claimed is that the one-piece section can be put together a little quicker than the four-piece. But it often happens that, owing to many breakages, the four-piece section can be put together the most rapidly. Certain it is, that the saving of time in putting together the one-piece section is not a serious item, when a few boys at 25 cents a day can put together, for a small outlay and in short order, more four-piece sections than any of our largest bee-keepers can use. I always employ small boys to put my sections together, and they like no better fun.

But the one-piece section is always a frail affair, and it is next to impossible to make them true. On the contrary, the four-piece, if properly made, is much the stronger, and it is easily made perfectly true, both in size and width. Again. unless the former are securely clamped in the super, they will speedily assume a diamond shape and become both unsightly and difficult to crate.

Lastly, the white poplar makes the most beautiful section. It is a whiter wood and not so easily soiled as the basswood. Owing to its being a very brittle wood it cannot be made into the one-piece sections. It must be made either dovetailed or to nail. As the white poplar is worth almost nothing for any other purpose, and makes the best section by far that is made, it is a marvel to me why any bee-keepers should use the one-piece section.

There is another timber, the white gum, growing extensively in this country, that makes a nicer section than the white poplar, but it is more difficult to work. The wood is heavy and very fine grained, taking a high polish from a properly fitted circular saw. Some of it is almost as hard as white hickory, but for that matter I can make beautiful sections from the hardest white hickory. Some of the gum trees are brash and soft, and I am sure can be worked as easily as the white poplar. The white gum makes the best and nicest shipping crate that is made. It holds a nail securely and is less inclined to split than the white poplar.

For years I have sought a section or surplus arrangement by which as much comb honey could be secured as by the use of brood frames in the supers. At last I can say to bee-keepers, I have found it. It is the use of the open side sections. At last it can truly be said that no loss in comb honey is occasioned by the use of a small package, if so constructed as to favor the work of the bees. And only by providing the freest communications to all parts of a section super can this be done. Numerous closed partitions in a super are so many barriers to the work of the bees, and will evidently result in a diminished product. An item of the highest importance in the construction of a super is to provide free ventilation from end to end and side to side. The nectar brought in by the bees usually comes with a rush, and it is fully one-half water, which must be evaporated. It is carried at once to the rapidly growing combs of the sections, and if a draft cannot be easily made through all parts of the super, the ripening of the honey must go on slowly and by increased and protracted labor of the bees. No wonder they often get discouraged in working in the old style of closed side sections, and often hesitate to make a start in them. This one advantage

will many times offset any alleged advantage in handling closed side sections. But the open slde section has numerous other advantages over the closed sided. The edges of the combs are built out even all around and the section is perfectly filled. The closed side section is rarely built out square to the uprights of the section, even in a good honey flow, but the bees are apt to leave a bee-space between the uprights and the edge of the combs, except a thin attachment in the center. With the open side section the bees always build the edges of the combs straight out to the uprights, and as a result put more honey in them than in the same sized closed side section. Hence it is than an open side section, 41 x 41 x 17, will weigh on an average as much as a closed side section 41 x 41 x 2 Again, with closed side sections, it is seldom that the sections at the ends and sides of the super are filled out as perfectly as the central ones. But the open side sections fully and completely overcome this objection. The end sections will be filled out as perfectly as any others, and no one-sided combs are built.

In a moderate honey flow the bees take the central rows of sections first and follow the separators, the central end sections being completed about the same time that the center sections are; the sections at the side of the case being the last to be completed, the tendency being to complete all sections in which work is begun.

After years of experience in the endeavor to succeed in obtaining well built combs in sections without separators, I gave it up, and I have resorted to every known expedient. I prefer wood separators, sawed 1/16 thick, and if made as wide as the section is high, they give most excellent results. In the use of a section 15 wide this requires that the top and bottom bars should be only 13 of an inch wide, thus securing a passage way 1 inch wide each side of the sep arators. I also wish the separators perforated opposite the openings in the side of the sections. For this purpose a 3 inch augur hole answers every need, and is never filled up with brace combs. With sections and separators so constructed every section has twelve openings into it for the passage of the bees and for allowing free ventilation.

However the super may be constructed otherwise, the above points are first essentials, as they are requisite to the successful working of the bees. In all other respects, a super should suit the convenience of the bee-keeper for ease and rapidity of operation. For this purpose I have found nothing better than wide frames, one tief high, properly supported in a case. This requires also that the side of the super be removable, and retained in place by an adjustable hook at each end of the case. The most practicable device of this kind that I have used is the invention of Mr. H. D. Cutting.

That the wide frames may be made light and yet not sag with the weight of honey in the sections. I place a bar or post in the centre of each frame, so that both the top and bottom bars of the frames aid in supporting the sections. So constructed, the top and bottom bars require to be only 3-16 thick and 18 wide. Such frames are cheap and afford every desirable facility is handling four sections at once and the removal of sections as tast as completed. The separators

are not made fast to these frames, so that it is an easy matter to shake the bees off from a frame of sections, and the centre bar prevents any liability of the sections being thrown out of the frames from shaking them. I leave the sections in the frames until ready to crate them for the market. They are then easily forced out of the frames by placing a block the size of two sections beneath and pressing the frames down.

The principal objection I have to the T super is that the whole case must be left on the hive till all the sections are completed, for only one section can be handled at a time, and that with great liability of injuring the combs, even by the most careful. But it is not practical to take off one section at a time in a large apiary, so that all the sections must be left on till all are completed, and when, as is often the case, the honey comes in slowly, the centre sections are liable to be soiled by being travel stained when left on too long. Besides if the tops and bottom bars of the sections are exposed, they will be more or less soiled.

Again, the T super cannot be made to work right with the open side section and wood separators as above described. It is admitted that it works fairly well and is very cheap for holding

the closed side sections.

As more T supers would be required to run an apiary than of the wide frame supers, the claim is made that although a little cheaper than the latter, the cost of the number required for an apiary is about the same, with all the advantage of facility of operation on the side of the wide frame super. I may add that after a trial of a great many kinds of section supers, I have found none that give the perfect satisfaction of the wide frame super.

recognized and no super is perfect that does not admit of being raised up and an empty one placed beneath it thus permitting the use of as many sections on a hive as may be desired.

DR. G. L. TINKER.

New Phila., Ohio, Nov. 2, 1888.

Rural Californian.

CALIFORNIA'S HONEY CROP OF 1888.

OUTHERN Californian makes a good showing as to honey yield for this year, though the product is not estimated at more than one-third of a crop. The

more than one-third of a crop. The Southern Pacific Railroad for the six months ending September 30, 1888, shipped to points east outside of California 1,236,496 pounds of honey, while for the same period the Southern California Railway shipped for the same points 819,790 pounds and the California Central Railway shipped 776,840 pounds to the same points. Large shipments of honey have gone by sea from the port of San Diego, and other scaports have contributed considerable quantities to be shipped from Los Angeles, Ventura and Santa Barba counties. The price is reasonably good, with purchasers looking for the honey,

and less of the commodity on hand than for many years past. A good article commands six cents per pound, wholesale.

Rural Californian.

ORDINANCE AGAINST BEES.

N Los Angeles City, Cal.. and presumably in other cities, ordinances have have been passed imposing a fine of five hundred dol-

lars upon the person keeping bees within the corporate limits. Thus far no one has been fined for violating the ordinance in Los Angeles, though many persons keep bees within the city limits, though without much profit to themselves, The numerous pepper trees used as shade and ornamental trees in Los Angeles give the bees a honey that is so fiery that one taste of it is enough for a lifetime. The bees ought to get out of the city, where the pastures are sweeter and better.

SPECIAL BOOK NOTICE.

We have a number of books which have been superceded by more recent editions, which we will sell at very low prices. In some instances they may be a trifle worn or abrased. We have:

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| speak at once. | | |

ONTARIO BEE-KEEPERS' ASSOCATION.

The annual meeting of the Ontario Bee-keep ers' Association will be held at Owen Sound, January 8 and 9, 1889. Sessions at 2 and 7 p.m. first day, and 9 and 1 p.m. second day.

W. Couse, Secretary.

DETROIT HONEY MARKET.

Best white comb in one pound sections 16 and 18 cts. Supply not large but equal to the demand. Beeswax 22 and 28 cents.

Bell Branch, near Detroit.

Read the grand array of premiums offered on page 756 of this issue.

M. H. HUNT.

TO THE DEAF—A person cured of deafness and noises in the head of twenty-three years standing, by a simple remedy; will send a description of it rare to any person who applies to Nicholson, 30 St. John St. Montreal.

735

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BUSINESS DEPARTMENT.

In return for the names of ten bee-keepers sent us on a postal, we will send the "Bee-Keepers' Dictionary" value 25 cents.

Attention is called to the list of books in this number. In this connection we might say that we can supply you with any standard book on the market and at lower rates than the stores. Write for prices on the works required.

HONEY WANTED.

We will pay 12 cents per pound for good extracted honey, delivered in Beeton, in exchange for supplies at catalogue prices, and we will take all that offers, allowing 30 cents each for the tins when they are the "Jones sixty-pound."

COOK'S MANUAL-NEW EDITION.

We have now in stock ready to go by return mail the latest edition of Prof. Cook's Manual. The price this time is \$1.50, postpaid, but the increase in price is most fully compensated for in the increased quantity of matter and the better quality of the work.

GOOD BOOKS

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THE FOLLOWING VALUABLE BOOKS WILL BE SUPPLIED FROM THE OFFICE OF THE CANADIAN BET JOURNAL. ANY ONE OR MORE OF THESE BOOKS WILL BE SENT POST-PAID DIRECT TO ANY OF OUR READERS ON RECEIPT OF THE REGULAR PRICE, WHICH IS NAMED AGAINST EACH BOOK.

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| inch | 5000 | 20 | 17 | 1 60 |
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| I inch | 2069 | 18 | 12 | 1 05 |
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