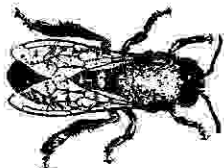


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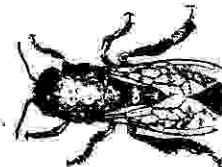
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Dear Beekeeping Friends:

We hope that you were able to prevent swarming and can benefit by the good honey flow. Be sure to keep water out for your bees, especially if you are in a town and close to swimming pools and neighbors' bird baths.

Bill Garesche and I met with Mr. Frank Kriz, Chief Engineer of the Eastern Division of the State Highway Department. He agreed not to mow the yellow clover until after the bees had collected the nectar. He stated that the Highway Department would be receptive to bee pasture on the right-of-ways, providing it did not increase their maintenance cost and was effective against erosion. He suggested that we contact Mr. Robert N. Hunter, Chief Engineer, Jefferson City. This is something for us to think about. Bring your suggestions to the state meeting in October.

Dr. Elbert R. Jaycox, Extension Beekeeping Specialist, 107B Horticulture Field Lab, University of Illinois, Urbana, Ill. 61801, puts out a very informative monthly newsletter, "Bees and Honey". Ten issues cost four dollars. In his May issue, he mentions Cape bees of South Africa. If the queen is lost, unmated workers lay fertile eggs from which a new queen is hatched. That could be helpful at times.

The Federal Court is taking care of local ordinances in outlawing ordinances that differ from town to town. For example, the Federal Appeals Court ruling against municipalities with ordinances against real estate "For Sale" signs could be the answer to towns outlawing

the keeping of bees, as it is occurring on a national basis and should be handled on a national basis, not on the expensive and piecemeal basis of city by city, or - worse yet - accepting the ordinance. There was also a federal court ruling against city ordinances restricting the relationship and number of people living in a house or apartment. The precedent has been set for beekeeping.

Local News

Central Missouri beekeepers have elected the following officers: President, John J. Hartman; 1st Vice Pres., Oscar Bubach; 2nd Vice Pres., David W. West; Treasurer, Dr. Cecil E. Cross; Secretary, Mary A. McCalment.

Twin Rivers Association: Meet on the first Tuesday of each month at Fort Zumwalt High School, Room B-1, O'Fallon, Mo., at 7:30 P.M. June, July and August meetings are at the city park.

The Midwestern Association meets on the third Sunday of the month at 2:30 P.M. at the Westport Methodist Church, 40th and Washington, Kansas City, Mo.

For the Ladies:

Pam Spencer, Walnut Ridge Rt. #2, Ava, Mo. 65605, sells pectin which will allow you to make jams and jellies with honey instead of sugar.

Have any of the ladies tried keeping their bees in all shallow supers? Four ten frame shallow supers in the brood chamber, instead of two deep supers, could do away with a lot of heavy lifting.

If any of you ladies have any questions, you would like answered, just send them in to Mr. Joe Maher, 9410 Eastern, Kansas City, Mo., 64138, and he will answer them in the next newsletter.

3-26-77

Minutes of Beekeepers Meeting in Columbia, Mo.

The meeting was called to order at 9:00 A.M. Dr. Jones of Missouri University School of Agriculture welcomed the members.

Max Therl, 2811 Carson Road, St. Louis, Mo., (314)423-2529
J.F. Maher, 9410 Eastern, Kansas City, Mo., 61438 - (816)763-0386
Jim Robins, 700 Rickey Rd., Kennett, Mo. 63857 - (314)888-5625
Leslie Shaw, El Dorado Springs, Mo. 64744 - (417)876-4208
John Hartman, RFD 5, Jefferson City, Mo. 65101 - (314)636-6753

Joe Francka, Missouri State Entomologist, introduced the State apiary inspectors and named the ones not present. He asked for more interest in honey and bee displays at the State Fair at Sedalia, Mo, and said the Bee Inspection Bill had passed the Senate and would come up shortly before the House of Representatives with some amendments.

The President of the Missouri Beekeepers Association, Jay Touhtz, introduced Sue Hubbell and her husband; Sue has written many articles in state newspapers on her beekeeping experiences. He also talked about problems getting the new Bee Law #86 through the Senate, which passed it 31-2; he asked members to contact one of the 163 state representatives - the one in their district - to urge them to vote for the Bee Law. Jay discussed the bill section by section and discussed amendments we wish added to the bill.

George Van Arsdale, a commercial beekeeper and a member of the association, talked about the problem of diseased bees and showed drugs and materials he mixes to combat disease. He uses TM 25 and mixes sulphathiazole with it at times; said it should be used in Spring - the mixture being 2 lbs. powdered sugar with 6.4 oz. TM 25. He puts mixture on end of hive tool (about a tablespoon) during brood rearing on top of frames; does this in Spring 3 times about 10 days apart, the last dose being put on at least 2 weeks before honeyflow (starts about 15-25 of March).

Dr. Elbert Jaycox, the principal speaker who is in charge of agriculture at the University of Illinois and the author of books on agriculture, was introduced. Dr. Jaycox also edits a letter on beekeeping which is available to beekeepers. He talked on research done on new items appearing on the market for beekeepers, relation of bees to plants and foraging research, as well as the pesticide problem with bees. He described tests with no swarm frames sold out of California and found they broke easily; it was also found that hives with and without swarm frames had queen swarm cells but had no swarms in any of the hives; with or without swarm frames - had 3 supercidures in all hives. His conclusion was that reversing hive bodies and giving bees plenty of room was the best answer to swarming (management the answer). He feels that cutting out Queen cells is a waste of time according to his research. Test of comb cleaner: labor extensive but results poor; suggested rendering comb more practical. He said they were working on a practical chemical to kill diseased bees to replace cyanide, but no results as yet. He also discussed an experiment they ran, trying to find out where a swarm goes to find a new home and how it picks a home, without any conclusions. He hope to develop information on how to handle swarms so they will stay hived. His talk was followed by questions asked, by members, of Dr. Jaycox. (Dr. Jaycox showed some slides before the

questions). The questions brought out that Dr. Jaycox has not gone into plastic hives thoroughly as yet. Dr. Jaycox spent a year in Switzerland recently, working with bees, and feels the European system of bee houses is not practical and that they are moving to our system of hives outside. He worked mainly in research labs. He said he liked the idea of painting hives inside, but oil based paint, rather than Latex, should be used as it held up better, and hives should be aired two weeks if possible before using them; one can also use linseed oil inside. Dr. Jaycox is going to experiment on pollenization to see which race does the best on soy beans. If comb is 1/4 drone or more, render it, don't cut it out, he says. Feels two queen colonies are not practical from a labor standpoint; splitting and reuniting is better. He stated that Faulbrook does not seem to be building up an immunity to the antibiotics we use.

The meeting was adjourned for lunch.

Mr. Jim Kuehl of Loupe City, Nebraska talked about his successful operation in wintering bees in a special building, at 47° - 49° with ventilation, using small clusters with only about 20 lbs. of honey per colony. He puts about 1000 colonies in the building - bees consumed about 2 lbs. of honey per month and came through in fine shape.

Jim Martin, Vice President of Missouri Beekeepers Association, discussed the Quarterly Newsletter and work involved. He also brought up the importance of beekeepers working together to combat ordinances against beekeeping in urban areas.

Charles Willis, a Vice President, gave a talk on making tools and equipment for beekeeping. He makes a very good hive tool out of a Fletcher tool he gets in a paint store, uses Silver Magic, an auto body material, to patch holes in hives, and a stapler to put staple beside wire hole in place of eyelets, to keep wire from cutting into wood.

A motion was made to form a committee to investigate our donating \$500.00 to the Langstroth Foundation, after a discussion of donation.

A motion was made by Joe Maher to expand the Board of Directors to one member from each association, one independent and one commercial beekeeper - presently the By-laws call for three members and no one person to hold more than one office in the State Association; motion seconded by Mr. Johnson and carried by a hand vote.

Mr. Erickson discussed having a committee to look into having a Missouri Honey Queen and financing it. He made a motion that a committee investigate having a Honey Queen, Mr. Johnson seconded it and it was carried by a show of hands.

Mr. Erickson suggested we get more active in the Missouri State Fair in Sedalia.

There was a discussion on 4H'ers and beekeeping and it was recommended that those interested in helping 4H'ers in beekeeping contact their local extension office.

The Fall State Meeting was set for October 24, 1977 at Lincoln University in Jefferson City in the Ballroom - capacity 250. A plate lunch was decided on by the members at the University in the Fall.

Proposed Changes in By-Laws
To be Voted on at October meeting

1. All dues be sent directly to the treasurer.
2. A copy of all correspondence by officers be sent to the Secretary.
3. The number of board members be increased to include one from each local association.
4. The commercial beekeepers to have one board member.
5. The State president and secretary reside in the same general area.

Door prizes were distributed, Charles Wills gave the benediction and the meeting adjourned at 4:00 P.M.

By Jay Touhtz, President

This year started out bad what with the ice and snow -- not to mention the abnormally cold weather. Then spring came so fast that Mother Nature started running and she is still ahead of schedule. Locust trees bloomed early and now the yellow and white clovers are blooming. After the extreme cold winter, the bad news of winter loss came. Although it was as close as we can figure, higher than usual, it was lower than most other states. Then with the spring our adaptable little bees seemed to have snapped back and built up to ready themselves for our early honey flows.

Also, our state association has been hard at work this year. Many of our members have helped promote beekeeping by being guest speakers at schools, garden clubs, Lions clubs, etc. We have also formed some of the committees requested at the Spring state meeting.

Because of your help with phone calls and letters to your Senators and Representatives, we are now working on the second to last leg of the long Bee Law journey. Senate Bill #86 has passed the House of Representatives with 133 - for and 1 vote against. Representative Sam Doult of Independence, Missouri did an outstanding job of talking about our bill and presenting it on the House floor. The bill now returns to the Senate for their approval and to vote on the amendments added in the House. (Since Senator Tinnin had introduced it first and it was voted on in the Senate - 31 for and 1 against with one senator absent.) Now we are in the process of finding out how the Senators feel about the House amendments. The vote of the Senate could come at any time. With Senate approval, it will go to the Governor. If the Senate disapproves our bill, it will then go to a committee of House members and Senate members. Whatever their decision is on our bill #86, that draft will then constitute a finalized bill and go to the Governor. We need to write one more letter today, not tomorrow, urging Governor Teasdale to sign Senate Bill #86 when it reaches his desk.

Again, let me emphasize that our combined efforts have made this possible. Missouri beekeepers have much work to do if we are to attain recognition as a "honey producing state". Let us all work harder in our local and state organizations to help achieve this goal.

As always, we ask that God bless you and your families and always keep you in His watchful care.

By Charles Wills, 1st
1st Vice President

Here it is May 30 and the honey flow seems to be in full swing. This is the time of year we realize some results of our efforts for the past nine months.

From all reports here in the Ozarks, the bees are in good shape and everyone is looking forward to a good honey crop this year. At this time it looks as if the only thing that can prevent it is the lack of moisture, which is always the case.

It has been much drier in our area this spring; however, I don't believe the clover bloom has been hurt yet, but if we don't continue to get plenty of moisture the flow can stop very suddenly, as we are very dependent on the clover bloom for our surplus honey.

I have noticed some areas that were very productive two years ago because of a good crop of white Dutch clover, but now there is nothing but fescue. I believe the cause for this is the dry weather late last summer and fall, and over-grazing.

SPECIAL NOTE TO ALL MEMBERS OF MISSOURI STATE BEEKEEPERS ASSOCIATION:

I brought up the idea of an emblem for our Missouri State Beekeepers Association at our board meeting last spring and everyone present seemed to be in favor of it; however, I failed to bring it on the floor at our spring meeting.

Now the only way I know how to handle the situation without another year's delay is to go ahead with our contest at this fall's meeting.

Suggestions for the rules were made, so I'll list them as they were suggested.

\$25.00 for the entry selected for our state emblem.
\$10.00 for second place.
\$ 5.00 for third place.

Selection will be made by all members present by a ballot vote.

So all members of the Missouri State Beekeepers Association who would like to enter what he or she thinks would make a good state emblem, please bring your entry to the fall meeting to be held at Lincoln University, Jefferson City, Mo. October 24, 1977.

Entries may be drawings, carvings, needlework, etc.

By Truman C. Hardin,
2nd Vice President

"INVERTED T"

For several years I have been interested in a two queen colony but have had some reservations in tackling the project. First, I wanted to use standard equipment if possible, and second, to restrict the height of such equipment.

When the article "Save your back" by Mr. Edward L. Kappler appeared in the January BEE JOURNAL, I found myself attracted to his idea. I immediately wrote Mr. Kappler and he was kind enough to give me some ideas and details. He calls it an "inverted T" design using all standard equipment and had conceived the idea in 1937 and has been using it since. He is over 80 years of age now.

Picture a 16 frame deep hive body on each side of a standard 10 frame deep body with a vertical queen excluder between each and the 10 frame body. The 10 frame body becomes the honey storage area with additional honey supers stacked above it-hence the name "inverted T".

With the above in mind, I spent several enjoyable hours constructing the 65" unit complete with the entrances in each of the 16 frame bodies and with a full length landing board. Two special telescoping covers and two intercovers to fit the oversize hive bodies. When finished, I installed an established colony into each compartment by transferring frames and bees with 4 additional frames with foundation. In the center honey section, I placed some drawn comb in deep frames and above this some shallow supers with "bait" frames.

The two colonies have taken off with great gusto and I am well pleased so far with the design. Wintering may present a problem, especially if we experience another drastic cold winter as we had in the one past. Incidentally, a division board is placed next to the vertical excluders to make hive bodies more adaptable for winter.

Needless to say, the appearance of the inverted T has caused several beekeepers to stop, look and ask questions. All agree the idea is excellent but some do not have equipment to construct enlarged hive bodies.

The number of bees in the two colonies is more than I have ever observed in any two single colonies; they do not fight and have not shown any signs of swarming (as yet). They seem to have adapted to the horizontal movement to the honey chamber.

I have already some refinements in mind for improved operation and after this season of use perhaps detailed drawings can be made for publication in the Missouri Newsletter if there is enough interest.

In the meantime, if any of the members have any question, I will try to answer if you enclose a self-addressed, stamped envelope.

By Joe Maher, Treasurer

I LIKE TO WORK BEES, BUT MINE ARE CROSS AND 118 STINGS IN ONE DAY IS TOO MUCH. IF I CAN NOT FIND A BETTER METHOD, I WILL HAVE TO QUIT THE BEES. WHAT DO YOU SUGGEST?

I try to use Caucasian bees for gentleness and during July, August and September, you can order a Caucasian queen from the south, go in and kill the old queen and introduce the new queen. Next spring you can usually go to the bottom of that colony with short sleeves and possibly a veil. I have examined every comb (gently) in a colony of Caucasian bees without even a veil over my face. One can have a real mean colony of bees, kill the queen while the honey flow is on, they will raise a new queen and you have a 50% chance that offspring of the new queen might be gentle. Try it, you will not lose too much.

HOW CAN YOU TAKE SUPERS OFF WITHOUT USING ACID BOARD?

You can shake bees off each frame, brush bees off each frame, use air or bee escapes. Shaking and brushing is slow, sometimes damages the combs and can cause stinging and robbing in the bee yard. If I had only a few colonies, I would have an inner cover with a metal bee escape, go to the colony and smoke some, raise the supers up and put the inner cover between the hive and supers with the bee escape in place. The bees will go down thru the escape and can not get back into the supers. In about two days the super will be ready to take off without any bees in it. Two things to remember on this, is don't leave too long as wax moth might enter the super and destroy, or, if the sun is hot and shining on the top of the hive, will melt all the wax in the super and allow honey to run down over the brood combs, drowning the bees. One might say, how does the wax moth get into a super that is closed and full of bees. The moth will lay an egg in a crack where the supers join, larvae hatching and will crawl into the super and start the destruction of the comb. Blowing bees out of super: If you live near electricity and have a vacuum sweeper with blower attachment, try opening the hive and blowing down thru the super. Bees will go down into hive body, leaving the super. I knew one beekeeper who used a tire pump for this purpose.

HOW DO I STOP ROBBING?

If a colony is weak and has been attacked by others, close any upper entrances you may have, place an entrance cleat in the lower entrance, reducing the opening to about 2 inches by $\frac{1}{2}$ inch until evidence of robbing is stopped. The guards will then set up their work and will be able to stop the attack. One can tell when a colony is being robbed by watching the front of hive, seeing one bee taking hold of another's wings and fighting, the robbing bee trying to escape and get away from guard bee. The best way to avoid robbing is not to work your bees right after the honey flow is over. Bees are very excited at that time and will pounce on any possibility of gaining some honey.

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