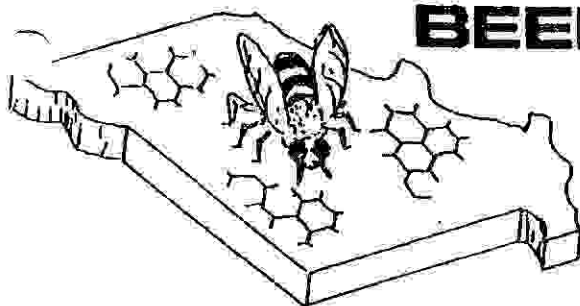


MISSOURI STATE BEEKEEPERS ASSOCIATION



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VOLUME 29

QUARTERLY NEWSLETTER
FALL, 1991

NUMBER 3

RECORD STATE FAIR ATTENDANCE

Another attendance record was set at the Missouri State Fair. This year's crowd outdid last year's by about 35,000 people; with a total number of 373,000 paid admissions. We sold alot of honey at our honey booth, and our treasurer said that we made a profit of about \$766.77. Honey stix again were sold in great numbers, and most of us realized that it was a mistake not to have sold Honey Ice Cream. We had perfect weather for the Fair. The days were hot, and sunny; but not too hot to keep people home. Thanks to all the beekeepers who came to work, and we hope that you had fun, too. Mike VanArsdall spent the whole week managing the booth, and we "thank" him for giving up a week of work. I think I heard Mike say that working "bees" was a whole lot more fun, than spending ten days at the fair. Most of us couldn't handle those 12 hour days greeting the public. A complete list of volunteers and also prize winners will be found inside this newsletter.

ST. LOUIS WORKSHOP, OCT. 24-26th

St. Louis will be the host city for the National Honey Bee Certification Workshop. This workshop is to be held Oct. 24-26 at the Downtown Holiday Inn. The meeting will be held to gather input into what should be required of beekeepers for states to allow the movement of bees. It will address all the diseases and mites which affect bee movement certification, but its major thrust will be Africanized bees. Read your newsletter for further information about the agenda and registration.

MSBA FALL MEETING, OCTOBER 19, 1991 CAPE GIRARDEAU, MO.

This is an important meeting with the election of officers for 1992. If you are interested in becoming involved with the work of the association, please submit your name to Glen Davis. We always encourage beekeepers to become more active. I can say for myself, that I have made many more friendships in beekeeping since I started editing the newsletter. Please attend the business meeting on Friday evening at 7:30 at the Holiday Inn. Also take note that the hotel the beekeepers will be staying at is the Victorian Inn. This hotel is next door to the Holiday Inn, and owned and operated by the Holiday Inn. The meeting agenda was sent out in advance, since I had to hold up this newsletter for some advertising information. Hope to see you in October.

LETTER from the PRESIDENT

A record attendance at the fair proved to be very good for the honey booth. Over 9,000 honey stix were sold. Many flavors such as lemon, grape, stawberry, and watermelon were available. It was my first experience with selling flavored stix. Over, all, it does increase sales; but it also decreases the amount of natural honey stix sold.

A few people did ask for honey ice cream. Those disappointed people were glad to hear that the dairy barn had tiger-stripe ice cream to boost the spirit of Mizzou football. Tiger-stripe is french vanilla with chocolate swirled in.

Flernoy Jones provided 2 MT beehives, an extractor, and a fully dressed manikin, complete with hive tools and smoker. This was placed on astro turf behind a white picket fence. It makes a wonderful conversation piece. Glenn Davis provided an observation hive, which contained one of his own "home-grown" queens. This queen had many of the attributes of a good queen, like color and vigor. She also had a bad attribute called shyness. She would hide on the top bar most of the last day.

Another queen was also present. Robyn DeBoard, the 1991 American Honey Queen, spent a couple of days promoting our favorite commodity.

The many volunteers concentrated their efforts on promoting honey and beekeeping. It gave our industry a chance to talk down the negative aspects of Africanized bees. One to one contact, holds much more clout, than what they hear on TV and Radio.

I am looking forward to seeing you at the Fall meeting in Cape Girardeau, where these items and many more will be discussed.

Sincerely,

Mike VanArsdall

Congratulations to Dr. Flernoy Jones on his retirement

In August 1991, Dr. Flernoy Jones retired from his position of Associate Professor and Extention Entomologist. Dr. Jones has served the University of Missouri for 27 years. In 1964 he was appointed Area Entomology Specialist at the Delta Center in Portageville, where he had primary responsibility for pest management on cotton. In 1976 he transferred to the MU campus where he had responsibilities for cotton IPM, apiculture, public health, and youth entomology. Dr. Jones' broad knowledge of entomology, and his statewide leadership for educational and management programs in apiculture and public health as well as his work with youth in the 4-H and FAA programs will be missed. In addition to his work at the University, he spent many years as Program Chairman for the MSBA. We all wish him many years of retirement, and hope that he will continue to work for the betterment of beekeeping in Missouri.

MISSOURI STATE
BEEKEEPERS ASSOCIATION
Executive Board Meeting
Keokuk, IA
April 26, 1991

The meeting was called to order.

Larry Hensley made a motion to accept the minutes of the previous meeting, seconded by Roger Nichols. Motion passed.

A motion was made by Bill Kohne to accept the Treasurer's report, seconded by Dr. Flermoy Jones. Questions were raised about expenses for the Ozark Empire Fair and the association's semi-annual meetings. The question was called for and the motion passed.

Sharon Gibbons reported on advertisements for the newsletter. Bill Randall will be assisting Sharon with the advertising and has already sent letters to prospective advertisers.

Glenn Staggs reported on the raffle. A chain saw, afghan, ceiling fan, and weed blower/vacuum have been donated. This year the chain saw, afghan, and a shotgun will be given away by raffle. Costs will include \$125 for 5000 tickets, approximately \$200 for the shotgun, and miscellaneous expenses for mailings and phone calls.

Sharon Gibbons reported that the AgriMissouri program of the Missouri Department of Agriculture will pay for up to half the cost of having more cookbooks printed. Glenn Davis made a motion to pursue this line of financing. Sharon seconded and the motion passed.

Sharon Gibbons and Glenn Davis reported on the status of the honey bee disease and pest booklet being prepared by the Canadian Association of Professional Apiculturists. The book is not ready.

State Entomologist Joe Francka requested a letter from the association stating the sentiment they wished him to express regarding honey bee problems in Missouri, specifically the Africanized honey bee. It was suggested that the executive committee serve as an advisory group on any problems.

Neal Bergman made a motion to advise Joe against federal regulations and stay with the current state law. Roger Nichols seconded. The motion passed.

Jim Hausam read an article about associations presenting distinguished service awards to deserving members.

Dr. Jones made a motion to present the Beekeeper of the Year award to Sharon Gibbons, seconded by Maynard Page. Motion passed.

Glenn Staggs moved to adjourn, seconded by Roger Nichols. Motion passed.

Submitted by Jim Thaxter, Secretary, from notes taken by Glenn Staggs.

MISSOURI STATE BEEKEEPERS ASSOCIATION

Keokuk, IA
General Meeting
April 27, 1991

The meeting was called to order at 3:30 by President Mike Vanarsdall.

Glenn Staggs made a motion to accept the minutes of the February Executive Committee meeting. Sharon Gibbons seconded and the motion passed.

Sharon Gibbons reported that she will apply for funding up to half the cost of reprinting the association's cookbooks from the Missouri Department of Agriculture-AgriMissouri. A local association has offered to loan money to the state association for the cookbooks. Neal Bergman made a motion to accept a loan of \$1000 from Eastern Missouri Beekeepers Association for printing 500 books without state funding or 1000 books if state funding is approved. Eastern will charge 6 percent per annum interest. The motion was seconded and passed.

Sharon Waddell made a motion to raise the dues in the state association to \$5 per person per year, the change to be incorporated into the association's by-laws. Neal Bergman seconded, the motion passed.

Sharon Gibbons was selected by the Executive Committee to receive the Beekeeper of the Year award at the fall meeting.

Bill Randall will serve as assistant for advertising in the newsletter. He has sent letters to prospective advertisers. Newsletters returned as undeliverable will not be mailed due to the expense. A change of address form will be included in the newsletter. Each member will be responsible for informing the newsletter editor of a change in address.

Glenn Staggs reported on the raffle. A chain saw, leaf blower/vacuum, ceiling fan, and afghan have been donated to the association for the raffle. A shotgun, chain saw, and afghan will be raffled this year. Tickets will sell for \$1 each or six for \$5. Local associations selling tickets will receive a 10 percent commission.

The Secretary will draft a letter to send to Joe Francka, State Entomologist, expressing the association's position on honey bee problems in Missouri.

Neal Bergman made a motion to advise Joe that the association does not support a federal regulation for apiary inspections, but would rather stay with the present state law. Roger Nichols seconded. Discussion followed. The motion passed.

Neal also made a motion to instruct Joe Francka that the current state law covers the Africanized honey bee and the state association's executive committee is available to serve as an advisory board.

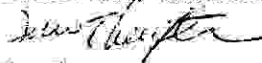
Jim Hausam tendered his resignation, effective April 28, 1991. He will transfer the treasury records to Walt Bigelow by May 1, 1991. Glenn Staggs made a motion to appoint Craig Oliver as interim Treasurer until the next election with Sharon Gibbons to serve as assistant treasurer, requiring signatures of both parties on all checks issued by the association. Larry Hensley seconded. The motion passed.

Sharon Gibbons reported that the book from Canada on honey bee pests and diseases will probably be available in Missouri on May 1, 1991.

Larry Hensley reported that the fall meeting will be held in Cape Girardeau at the Holiday Inn on October 19.

Glenn Staggs made a motion to adjourn, seconded by Roger Nichols. Motion passed.

Respectfully submitted,


Jim Thaxter, Secretary

HONEYBEE DISEASES & PESTS BOOKLET

The disease booklet arrived in August and has been distributed to those beekeepers who preordered. We still have about 75 booklets to sell. We will have them available at the State meeting @ \$3 each, or by mailorder. Please included \$1 extra for postage if you wish to have your copy mailed. Orders can be send to Glenn Davis, 1305 E.AA Hwy., Blue Springs, Mo. 64015; or Sharon Gibbons, 314 Quinnmoor Dr., Ballwin, Mo. 63011. The MSBA makes \$1.25 profit on each book. Please help your association by supporting this project, and the future raffles we will have to raise money for operating this association.

COOKBOOK INFORMATION

I received a letter September 5th from the Agri-Mo. program that our request for funding the cookbook was approved for \$1000.00. I am in the process of typing the recipes for the revision now, along with help from Joanne Davis. An additional section will be included in the cookbook featuring State Fair recipes from the past five years. Boone Regional will be donating their collection of recipes from Mrs. Johnson who entered the contest for many years, and passed away last year. If anyone has entered their recipes at the State Fair in the years 1986 and 1987, please send them to Sharon.

Thanks to American Honey Queen, Robyn DeBoard for helping us promote honey at the Missouri State Fair. Unfortunately, Robyn was in a automobile accident as she returned from the Kansas Sate Fair, and has a broken collar bone. She will be getting a much needed rest, and will resume her Queenly "duties" in October.

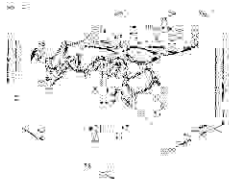
STATE FAIR REPORT

We had alot of interested beekeepers and their families helping at the fair booth this year. I hope all those who helped, are included in this list.

Mike VanArsdall, Glenn & Joanne Davis, Barry Davis, Charles Wills, Truman Hardin, Jim Thaxter, Craig Oliver, William Johnson, Charles Schwartz, (and his two daughters), Sharon Gibbons, Harry Knowles, Michael Allen, Nellie Fernandez, Bob McCarty, Carol Kjelshus, Ted & Marlene Jansen, Clarence & Mildred Bopp, Clarence Vogler, Walt Bigelow, Wilber & Ellen O'Neill, Glenn Staggs, John Hartmann, Vernon Reynolds, Norman Holman, Jesse Lyons, Dr. Flerney Jones and Bailey Brown.

FROM THE EDITOR:

I was recently sent a copy of the article about the Africanized Bee by Sue Hubbell. If you remember, Sue Hubbel is (or was) a Missouri beekeeper who has written several interesting books about life in the Ozarks, and beekeeping. She has written a wonderful article for the Smithsonian Magazine with the caption, "Maybe the 'killer' bee should be called the 'bravo' instead." The article was too long to include in this letter, but the library system should have a copy. The page number is 117 of the fall issue. Sue went to Guatemala to study first-hand the way the Latin Americans work with the "bravo" bees. I think that you will enjoy the article. I will ask Larry to run some copies for those of you who would like to have a copy, and can't find the article. Just send me enough money for the copies and postage. There are nine pages. Thanks to beekeeper Jim Watts from Springfield for sending me the article.



THE AMERICAN SOCIETY OF BEEKEEPERS
 1234 N. 1ST AVE. SUITE 100
 PHOENIX, ARIZONA 85004
 (602) 254-1234

ASCB: "Don't Buy Back"

We have just received word from the U.S. Department of Agriculture that the ASB can justify a price of 16¢ per pound for honey. Since we do not go along with the government's wishes in the last Farm Bill it appears that they are going to phase us out by using the authority of the Department of Agriculture. The industry should continue with the same moves of the buy-back will phase us out of the market. The 16¢ price for honey.

I would urge a contact your Senators and Representatives asking that they contact ASB and ask if there has been this urgent need to raise the buy-back so fast. Explain to them we are assessing the 16¢ per pound to try and increase the market for honey. Moving the buy-back up before the market is built is counter productive to our efforts. Please write these people in order to have any chance of affecting this year's crop.

President
 Beekeeping Federation

Swimming Pools You Can't Easily Tell to

By SONIA L. NAZARIO

Staff Reporter of THE WALL STREET JOURNAL

Who said bees are always busy? Lately, bees in Scottsdale, Ariz., have been finding time for swimming—in some of the region's finest residential pools.

Richard Orlowe, who lives at the pricey Villas at Scottsdale Mountain Summit, estimates that he has seen about 10,000 bees buzzing around his neighbor's pool, which he uses twice a day. The bees zip in around dawn for a couple of hours and return for a second dip in late afternoon, which locals now call "bee time."

But bees are bad swimmers. They drown. They sink. They make a mess. Mr. Orlowe has found his neighbor's pool skimmer six inches deep with dead bees.

Leo Rickhoff, secretary-treasurer of the Villas residents association, started putting out a water-filled plastic kiddie pool as a decoy. The bees didn't take the hint. He then forked over \$2,500 to several beekeepers to track the bees to their colonies in the nearby McDowell Mountains to kill them. The beekeepers found six colonies and then gave up. Finally Mr. Rickhoff, whose wife is allergic to bee stings, drained his pool. But the bees were waiting when covers temporarily placed on neighbors' pools as bee deterrents came off.

"The bees, of course," says Mr. Rickhoff, as he languishes in the desert's 115-degree heat.

The problem apparently goes back to this past spring, when lots of moisture made the desert bloom, and bees got busy making more bees. Then drought set in, and the thirsty insects discovered the joys of swimming pools.

Residents have asked Scottsdale city officials, who already have a roach hotline, to build pools deep in the desert for the bees. But Lois Fritz, management assistant for the mayor, says the bees aren't the city's business. State bee experts, who believe that battling bees is futile, say the state has 250,000 wild-bee colonies, with as many as 20 colonies per square mile.

Cheryl Gabbard, who lives in Scottsdale's Sonoran Heights development, has partly surrendered. At first she followed beekeepers' suggestions and tried massive doses of chlorine in her pool, then algicide. She hung lures laced with honey on trees in the desert. She even hauled four large, water-filled metal tubs into the desert. Finally, she sacrificed her hot tub to the insects, even putting a permeable cloth cover over it so the bees can luxuriate without drowning. Now they usually leave the pool for her. Nevertheless, she says, "I'm praying for rain."

Dear Abby, I recently found out that my neighbor's bees were stinging me. I have a severe allergy to bee stings. I have been stung many times and it is very painful. I have been to the doctor and he has prescribed antihistamines. I am wondering if there is anything I can do to prevent this from happening again. Please advise me. Thank you.

mona.
 bee stings.
 next-door neighbor.
 beehives in her back yard.
 idea how long, since she moved, she has been stung.

This came as a surprise to her other neighbors, too, since according to our city's code, one must have the written permission of one's neighbors to keep bees in a residential area, and none of us had ever been asked. I informed the regulatory agency of my city government, and they promised to conduct an investigation.

Abby, I have no animosity against beekeepers, but they should respect the ordinances relating to keeping bees in a residential area.

I just spent \$800 for dog care as the result of my neighbor's thoughtlessness.

Abby, please remind your readers that animals can be just as allergic to insect stings as people — with just as dire consequences.

STUNG IN PHOENIX

Thanks alot
 Abby!

If it's any consolation, the honeybee stings only once and then it dies. I'm no lawyer, but I think you have a honey of a case against your beekeeping neighbor.

Formic Acid for Mite Control

There's been a lot of information recently on use of formic acid for mite control. The material has several things going for it including the fact that it is a natural product, fairly inexpensive and is effective against both tracheal and Varroa mites. However, my colleague at the University of California in Davis, Eric Mussen, laments that some facts have been left out in all the fold-derol. First of all, the material doesn't have a label and so cannot be legally used. Second, it's potentially dangerous to users. Here's what he writes in his newsletter, *From the UC Apiaries*.

Formic acid is the simplest carboxylic acid with a formula of H-C(=O)OH. It has a molecular weight of 46.03 and is described as a "colorless, fuming liquid with a pungent penetrating odor." It boils at 216 degrees F, melts at 35 degrees F, has a specific gravity of 1.2, a vapor pressure of 23 mm Hg at 20 degrees C, mixes well with water, alcohol, ether and glycerol, and has an odor threshold at 21 ppm.

Vapor-air mixtures of 18-57% are explosive. If the ambient temperature is at or above 122 degrees F and the mixture is ignited by a spark. The vapors are heavier than air and may travel a considerable distance to source of ignition and flashback. However, fire is not a major concern.

1. Organic acids are dangerous materials to handle. If you spill formic acid on your skin, expect severe pain, brown or yellowish stains, burns that usually penetrate the full thickness of the skin, have sharply defined edges, and heal slowly with scar tissue formation.

If you spill

from your clothes and don't wash it out, chronic exposure can lead to dermatitis (rash), protein precipitation, and red blood cells in urine.

2. Splashed into eyes, formic acid causes pain, tears, blurred vision and photosensitization (lights are too bright). In severe cases, conjunctival edema (swelling around eyes) leads to destruction of corneas.

3. If someone accidentally drank formic acid, it would cause severe burning pain in the mouth, throat and abdomen; followed by vomiting, watery or bloody diarrhea, tetanus (painful spasms during urination), retching, hemolysis (ruptured blood cells), hematuria (blood cells in urine), anurial liver and kidney damage, low blood pressure, collapse, convulsions, coma and paralysis.

4. The most subtle effects involve inhalation. Opening a container of formic acid in an enclosed space liberates fumes. At 100 ppm, the fumes are immediately dangerous to life and health. Inhalation at low concentrations causes tearing, rhinorrhea (runny nose), coughing, throat irritation, and headache. Higher concentrations may produce the previous symptoms, followed in six to eight hours by pulmonary edema (fluid in the lungs), tightness in the chest, difficulty breathing, dizziness, frothy expectoration and cyanosis (bluish or purplish skin discoloration due to lack of oxygen in the blood).

Breathing only a little at a time over prolonged periods can lead to erosion of the teeth, local tissue death in the jaw, bronchial irritation with chronic cough, frequent attacks of bronchial pneumonia and gastrointestinal disturbances.

If there is any good news in the story, it is that formic acid does not appear to be carcinogenic. It is a mutagen (causes mutations in genetic material).

Use of proper protective equipment is a must when handling formic acid. The chemical container should be opened only in a room with powerful exhaust ventilation. The acid is strong enough to eat through some forms of plastics, rubber and coatings. Employees must wear appropriate protective clothing and equipment to prevent any possibility of skin contact with this substance, including appropriate gloves, splash-proof or dust-resistant safety goggles and face shield.

If a person is going to be in an atmosphere where there are 100 ppm (0.01%) formic acid, one of the following must be worn:

- A. Chemical cartridge respirator with an organic vapor cartridge and a full face mask.
- B. Dust, mist and fume respirator.
- C. Gas mask with an organic vapor cartridge (cylindrical, front- or back-mounted canister).
- D. Supplied-air respirator with a full face piece, helmet or hood.
- E. Self-contained breathing apparatus with full face-piece.

We hope this information is convincing. Formic acid MUST be handled with care.

IN THE BERYARD
Cleaning beekeeping clothing and gloves seems to be a real chore. Boraxo, as many of you know, is good to clean propolis from your clothes. Boraxo is good to put on the floor around the outside wall of your extracting area to discourage bugs such as ants from entering.

Marion Ellis, Nebraska State Apiarist gave us a good method of cleaning leather gloves so they will be pliable after drying.

- 1) Wash gloves with lava soap or other soap if you prefer.
- 2) Rinse gloves thoroughly and ring dry.
- 3) Put gloves on and put tincture of Green Soap on them and rub this into leather as if you are washing your hands.
- 4) Don't rinse the Green Soap off but place the gloves out flat to dry.

I think you will like the results. If the gloves aren't pliable after drying, then not enough Green Soap was used. Green Soap can be found at a drug store. I found some at Osco drug store.

Now that the bees have produced the fine product of honey there are some things you as the beekeeper can do to maintain the quality of honey. Be sure the moisture content of the honey is 18.5% or less. This can be achieved by placing the super in a warming room with a dehumidifier running to help remove excess moisture. This is a must if you remove the honey and cannot extract it immediately. A refractometer can tell you the exact moisture level of honey.

Liquid honey should be strained through some form of filter in cloth to remove any foreign material. The honey should then be put into containers with tight sealing lids for storage. Honey supers and open containers of honey draw moisture; so neither should be left very long in a place with high humidity like a damp basement. Keeping honey at a lower moisture content prevents fermentation and gives the product a better flavor.

-Robert Wells, Assistant State Apiarist

CLASSIFIED ADS:

Beehives wanted this fall. If you are planning to reduce or going out of business, contact me at 314-896-4202. Will travel statewide.

Gerald Fields, Holt Summit, Mo.

ABF News Release

For Immediate Release
AMERICAN BEEKEEPING FEDERATION
Contact Troy For: 912-427-8447 or 427-4018
September 5, 1991

Time To Prepare Best Honey For American Honey Show As Federation Readies For 1991 San Diego Convention

Now is the time to begin to prepare for the 1992 American Honey Show, says Show Chairman Rick Sutton.

The Honey Show is a feature of the annual convention of the American Beekeeping Federation, which is set for Jan. 17-21, at the Red Lion Hotel in San Diego.

Preparations are also being made for all other aspects of the convention. According to Convention Chairman Troy Fore, topics and speakers are being selected for the program, exhibitors are being contacted for the annual Trade Show, arrangements for the activities connected with the American Honey Queen are being made, and tours to attractions around San Diego are being booked.

New to the ABF convention this year will be "special interest sections," which are set on Saturday morning. Meetings will be arranged for honey producers, honey packers, package bee and queen shippers, and bee supply dealers and manufacturers. Meeting separately, each group will be able to address its own special needs, says Mr. Fore. "We are trying to be sensitive to the varied interests in our industry. They can develop their own proposals and then appeal to the full industry-wide group for support."

"With improved honey production in many areas, we should have a good representation for the San Diego show," Mr. Sutton says. "We have entries from all sizes of producers - from hobbyists to commercial."

Entry forms and rules for the Honey Show are available from the Federation office. They call for each entry to consist of four 1-lb. jars of honey, four comb sections, or one 5-lb. block of beeswax. There are classes for 7 colors of liquid honey, chunk comb honey, square and round comb sections, creamed honey, natural beeswax, and art molded beeswax. The entry fee is \$3.00 per entry. Entrants must be members of the Federation.

Trophies will be presented to the first place winners in each of the 13 classes. A best of the show award will be presented for the best individual entry in the show. Ribbons will be awarded for first, second, and third place winners.

After the show, the entries will be auctioned with the proceeds going to the benefit of the American Honey Queen program.

For Honey Show entry forms and show rules or for information on any other part of the convention, contact the American Beekeeping Federation, P.O. Box 1038, Jessup, CA 91545, ph. 912-427-8447.

GET READY FOR.....

NASHVILLE!!!

Who: *The American Honey Producers Association, Inc.*
Members and Friends

Date: January 7-12, 1992

Place: Doubletree Hotel, Two Commerce Place, Nashville, TN., 37219

Schedule: Tuesday, January 7, 1992,
Executive Committee Meeting..... 1:00 p.m.
Friendship Reception..... 7:00 p.m.

Wednesday, January 8, 1992,
1991 Board of Directors meeting..... 8:00 a.m.
General Sessions Begin..... 1:00 p.m.

Thursday, January 9, 1992,
General Sessions..... All Day

Friday, January 10, 1992,
General Sessions..... All Day
Annual Banquet & Awards Ceremony..... 6:30 p.m.

Saturday, January 11, 1992,
General Membership Business Meeting..... 9:00 a.m.
1992 Board of Directors Business Meeting.... 1:30 p.m.

Evening out at the Grand Ol' Opry

Sunday, January 12, 1992,
1992 Executive Committee Meeting..... 8:00 a.m.

Y'all Come!!!

ANTIBIOTIC EXTENDER PATTIES

Antibiotic extender patties are a means of feeding bees terramycin for prevention and control of American and European Foulbrood. They are a method of administering the antibiotic which lasts longer than feeding terramycin in dust or syrup. To make the patties mix the TM thoroughly with the granulated sugar. Then add the Crisco (do not use animal fat) and knead to blend until evenly mixed. Make into half-pound patties. (Do not melt shortening, the heat will damage the TM.) Place patties on a sheet of wax paper directly over the cluster.

If the bees have brood in two brood chambers, place the patties between the two brood chambers. If they have brood in only one chamber, place that chamber on the bottom with the patty above the cluster and the empty box on top. Use one patty in the spring and another in the fall after removing surplus honey.

Four formulas for making antibiotic extender patties are described. Use the one most suitable for the number of patties you wish to make. All can be increased if the ingredients are kept in the same proportion.

2 PATTIES

1/3 lb. Crisco
2/3 lb. granulated table sugar
2 tablespoons TM-25

20 PATTIES

3 lb. Crisco
6 lb. granulated table sugar
6.4 oz. (1 pack) TM-25

6 PATTIES

1 lb. Crisco
2 lb. granulated table sugar
6 tablespoons TM-25

100 PATTIES

16 lb. Crisco
32 lb. granulated table sugar
1 lb. TM-50
or
2 lb. TM-25

Terramycin Dust

Mix one part TM-10 to two parts powdered sugar
Mix one part TM-25 to five parts powdered sugar
Mix one part TM-50 to ten parts powdered sugar

Prepare the mixture by volume, not weight (for example, with TM-25 mix one measure of TM-25 with five equal measures of powdered sugar). Dust the mixture on the top bars around the perimeter of the brood nest. Use two tablespoons per feeding. Feed three times in the spring, seven days apart, and twice in the fall after removing surplus honey. Stop treatment in the spring three weeks prior to the addition of the first surplus honey super.

To treat one colony, one time, mix one level teaspoon of TM-25 with five teaspoons of powdered sugar.

This mixture is effective in preventing both American and European Foulbrood.

Marion Ellis
Nebraska State Apiarist



IF YOU DON'T PROTECT YOUR BEES FROM VARROA MITES NOW, YOU'LL PROBABLY GET STUNG LATER.



With a new self-hanging design and EPA registration, APISTAN is easier than ever to use.

So to protect your bees and your honey, there's only one answer. APISTAN Strips, pure and simple. For more details, call 1-800-527-0512.

Until now, you may have thought you had to choose between guaranteeing your bees' health and ensuring honey purity. But there is a solution. APISTAN® Strips, the only EPA-approved treatment for Varroa mites. APISTAN has been proven to be 99.8% effective in eliminating Varroa mites. Yet, it leaves no residue in honey. It's even easy to use. The sturdy, self-hanging design lets you

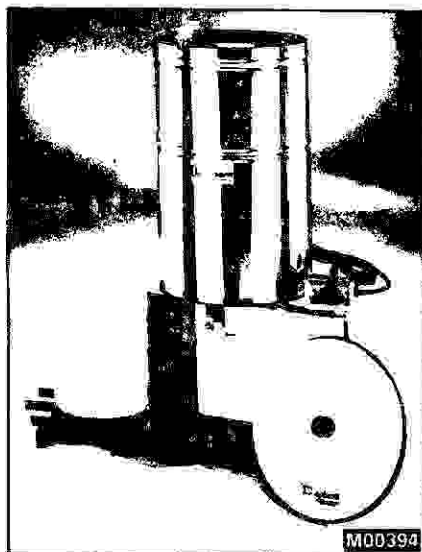


Are You Ready for This Years Honey Crop?

Stainless Steel Honey Extractors

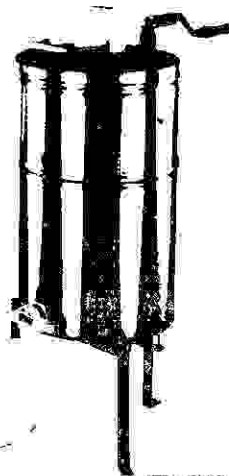
Junior Bench Extractor— Stainless steel hand powered. Capacity, 2 frames 19 1/2" deep maximum per load. SS extracting basket and new SS top assembly. Piano style continuously hinged lid. Easily converts to 175-lb storage container. (Frames must be removed and turned to extract both sides.) 1" plastic honey gate included. Tank 304 SS, 14" dia x 23 1/2" ht. All extractors should be anchored when in use. We recommend M00391 stainless steel stand (sold separately).

The Small Honey Producers Dream — A Great Value!



M00394

M00390



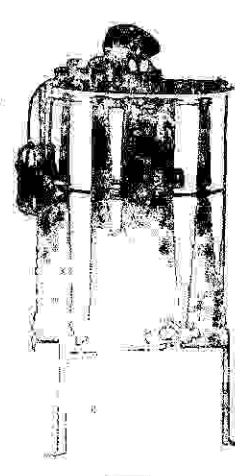
M00391

M00396



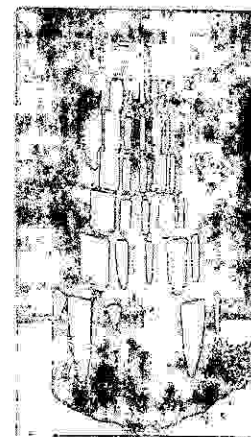
M00397

M00403



M00392

Little Wonder Extractors: Top quality tangential extractors. Extract 4 - 9 1/2" frames or shallow frames per load. All welded tank or two-piece stainless steel houses the stainless basket. Frames must be turned to extract both sides. Turn shallow frames within basket; deep frames must be lifted out for reversal. Hand models are gear driven by quiet, durable nylon gears. Power models employ a direct drive motor with an electronic speed control which is manually adjusted. 110 volt operation. All internal components are put out only by conversion to a 300-lb storage unit. Comes complete with 1 1/2" gate. Tank 3/4" dia x 24" ht. Stand sold separately.



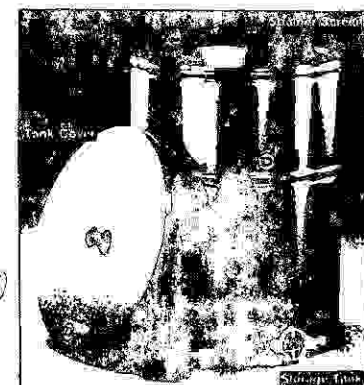
Plain 10" (254mm) Knife— for smaller operators with only a small amount of uncapping to do. Keep one in pan of hot water while pre-heated knife is being used. Each, wt. 2 lbs (91 kg).

Electric Knives Just plug them in and you are ready to start uncapping. High quality blade is 10" (254mm) long by 2" (51mm) wide. Guaranteed for one year by manufacturer, with adjustments made direct with the factory.



Strainer Screens: Aluminum screens hook over tank rim and nest inside tank.

Stainless Steel Tanks: Heavy duty, all welded, type 304 food grade stainless steel construction. Custom welded fittings and/or custom tanks available on request.



M00393

The LIQUIDATOR — 4 units in 1

- Uncapping/Cappings Drain Tank
- Wax Melter
- 1-Can Liquefier (60# Containers)
- 175# Bottling Tank

The Liquidator and an extractor are the only equipment necessary to process and package your entire honey and wax crop. The LIQUIDATOR, a great companion for your Junior Bench, Little Wonder, or Ranger extractor was developed specifically for hobbyist beekeepers. Save time, labor, and mess with the LIQUIDATOR.

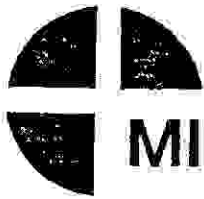


HONEY??

One of our members sent us an advertisement from Amstar Sugar Corp. touting a new product called Domino's Quik-Flow Honey Granules. Their ad bragged up honey uses back to the Greek and Roman bakers and how it enhances the end product, etc. I sent the ad to the National Honey Board and Bob Smith's reply was that they had checked out this product and found that it contained 8.25% honey on a dry basis. He further states, "It is apparent that this product is not 'honey.' It also contains cane sugar syrup and liquid brown sugar. We will review the legality of calling this type of product honey."

We sent a bag of Eilleins Honey Lemon Cough drops to the National Honey Board and they sent them to Thomas J. Payne Market Development and on to Linda Adams, a Food Technologist. She in turn contacted F & F Laboratories and a research specialist that admitted that they did not have to put honey or lemon in their product to call it "Honey Lemon"; it's not illegal. The FDA said they did not have any regulations for this situation, you wonder how many products on the market fall into this category. Eilleins Honey Lemon cough drops do not contain any honey!

I give you these two examples of what the National Honey Board can do. Putting out slick ads, magazine articles and movies is a small part of their work. Doing the leg work and research on items as small as the ones they did for me is a large part of the Honey Board's work. Everything pertaining to honey is looked at, looked over, looked into, looked under, researched, checked and re-checked. We in the honey industry are fortunate to have people like this working for us.



MID-CON

We carry a full line of beekeeping supplies including, glassware, woodware, candlemaking supplies, syrup, extracting equipment, books and gift items.

Our hours are 8:30-5:30 M-F, Sat. and Sundays by appt. Call for directions!

Mid-Con Agrimarketing, Inc.
8833 Quivira Road
Overland Park KS 66215-3913
(913) 492-1670 (800) 547-1392
FAX (913) 492-2742
Cecil Sweeney & Joli Winer

Nebraska White Honey

for Sale

Also a few hundred square and Ross Round comb honey sections

Suchan Honey Co.
1706 Mayfair Dr. Omaha, NE 68144

402-333-7442



Plan early... Plan smart. This year get
ROSSMAN'S ITALIAN
QUEENS & PACKAGES!

Packaged Bees & Queens

Fumadil-B Fed

"They Produce"




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1991 MISSOURI STATE FAIR RESULTS

8-21-91

MISSOURI STATE
PLACINGS BY DEPARTMENT / CLASS

DEPARTMENT NAME / ADDRESS FFA/4H PRIZ

DEPT. 0, AGRICULTURE
CLASS 003, TOPE DISPLAY OF PERMANENT NATURE

01 KYNOLDS, VERNON
RR 1 BOX 107, HIGH HILL, MO 63350

DEPT. 0, AGRICULTURE
CLASS 003, DISPLAY OF LIGHT EXTRACTED HONEY

01 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

02 REYNOLDS, VERNON
RR 1 BOX 107, HIGH HILL, MO 63350

03 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

04 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

DEPT. 0, AGRICULTURE
CLASS 006, CUT COMB HONEY IN PLASTIC BOXES

01 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

DEPT. 0, AGRICULTURE
CLASS 005, 40X40 OR SQUARE OF COMB HONEY

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

DEPT. 0, AGRICULTURE
CLASS 006, LIGHT BUCK COMB HONEY

01 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

02 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPARTMENT NAME / ADDRESS FFA/4H PRIZ

DEPT. 0, AGRICULTURE
CLASS 007, DARK BUCK COMB HONEY

01 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

DEPT. 0, AGRICULTURE
CLASS 008, LIGHT EXTRACTED HONEY

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

03 FINCK, BOB
8867 HEMINGWAY DR., CRESTWOOD, MO 63126

04 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

05 REYNOLDS, VERNON
RR 1 BOX 107, HIGH HILL, MO 63350

06 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

07 JOHNMEYER, J A/BOONE REGIONAL BEEKE
RR 1 BOX 15, FAYETTE, MO 65248

08 VIVIAN, MIDWESTERN BEEKEEPERS
1305 S.E. AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE
CLASS 009, DARK EXTRACTED HONEY

01 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

02 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

03 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

04 REYNOLDS, VERNON
RR 1 BOX 107, HIGH HILL, MO 63350

MISSOURI STATE PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE

01 CORBIN, KEN
1776 GOLDEN LAKE CT., CHESTERFIELD, MO 63017

DEPT. 0, AGRICULTURE CLASS 010, SEALED HONEY, WHITE

01 KEYHOLDS, VERNON
RR 1 BOX 107, HIGH HILL, MO 63350

02 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

DEPT. 0, AGRICULTURE CLASS 011, SEALED HONEY, WHITE, SHALLOW-DEPTH

01 STEFFENS, JOHN H
913 MAIN RD., INDEPENDENCE, MO 64056

02 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65249

03 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

DEPT. 0, AGRICULTURE CLASS 012, WHITE CANDIED HONEY

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 VIVIAN, MIDWESTERN BEEKEEPERS
1305 S.E. AA HWY, BLUE SPRINGS, MO 64014

03 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

04 GENSLER, MI
7720 N GRAND, KANSAS CITY, MO 64118

DEPT. 0, AGRICULTURE CLASS 013, YELLOW BEESWAX

01 FINCK, BOB
8967 HEMINGWAY DR., CRESTWOOD, MO 63126

MISSOURI STATE PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE

02 FARFELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

03 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

04 STEFFENS, JOHN H
913 MAIN RD., INDEPENDENCE, MO 64056

DEPT. 0, AGRICULTURE CLASS 014, QUEEN AND HER BEES

01 VIVIAN, MIDWESTERN BEEKEEPERS
1305 S.E. AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE CLASS 015, ART DESIGNS IN BEESWAX

01 DAVIS, BARRY
RR 1 BOX 118A, WELLINGTON, MO 64097

02 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

03 DAVIS, JOANNE
1305 S E AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE CLASS 016, BEESWAX CANDLES

01 DAVIS, JOANNE
1305 S E AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE CLASS 017, STORE DISPLAY OF PERMANENT NATURE

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE

8-21-91

PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE AM

CLASS 018, DISPLAY OF LIGHT EXTRACTED HONEY

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

03 VIVIAN, MIDWESTERN BEEKEEPERS
1305 S.E. AA HWY, BLUE SPRINGS, MO 64014

04 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE
CLASS 019, CUT COMB HONEY IN PLASTIC BOXES

SECT. CC, AGRICULTURE

01 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

02 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

03 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE
CLASS 020, ROUND OR SQUARE OF COMB HONEY

SECT. CC, AGRICULTURE

01 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

02 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE
CLASS 021, LIGHT DARK COMB HONEY

SECT. CC, AGRICULTURE

01 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

02 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

03 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

8-21-91

PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE AM

DEPT. 0, AGRICULTURE
CLASS 022, LIGHT EXTRACTED HONEY

SECT. CC, AGRICULTURE

01 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

02 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

03 JANSEN, TED/EASTERN BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

04 ATKINS, BOONE REGIONAL BEEKEEPERS
RT 1 BOX 15, FAYETTE, MO 65248

05 FINCK, BOB
8867 HEMINGWAY DR., CRESTWOOD, MO 63126

06 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

07 JOHNMAYER, J A/BOONE REGIONAL BEEKE
RR 1 BOX 15, FAYETTE, MO 65248

08 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

DEPT. 0, AGRICULTURE
CLASS 023, DARK EXTRACTED HONEY

SECT. CC, AGRICULTURE

01 FARRELL, MIDWESTERN BEEKEEPERS
1305 SE AA HWY, BLUE SPRINGS, MO 64014

02 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

03 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

04 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

05 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

06 GIBBONS, SHARON/ESTRN MO BEEKEEPERS
314 QUINNMOOR DR, BALLWIN, MO 63011

01 HAMPTON, PAULA

8-21-91

PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE AM

500 E FLORENCE, WINDSOR, MO 65360

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE

CLASS 024, GENERAL DISPLAY OF USES OF HONEY

01 HAMPTON, PAULA WINDSOR, MO 65360

02 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

03 BARTLEY, DIANE
201 RAINBOW DR, COLUMBIA, MO 65201

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE
CLASS 025, HONEY FRUIT CAKE, RECIPE ATTACHED

01 HAMPTON, PAULA WINDSOR, MO 65360

02 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE

CLASS 026, LIGHT HONEY CAKE RECIPE ATTACHED

01 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

02 PATTERSON, SARAH
2405 PLAZA, SEDALIA, MO 65301

03 MEIDINGER, JANICE
RT 2 251A, CLINTON, MO 64735

04 HAMPTON, PAULA WINDSOR, MO 65360

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE

CLASS 027, DARK HONEY CAKE RECIPE ATTACHED

01 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

02 HAMPTON, PAULA

8-21-91

1991 MISSOURI STATE
PLACINGS BY DEPARTMENT / CLASS

PLACE EXHIBITOR NAME / ADDRESS FFA/4H PRIZE A

500 E FLORENCE, WINDSOR, MO 65360

03 PATTERSON, SARAH
2405 PLAZA, SEDALIA, MO 65301

04 FARRELL, MARILYN
2721 GLENDALE, INDEPENDENCE, MO 64052

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE
CLASS 028, BOX OF ASSORTED HONEY COOKIES

01 HAMPTON, PAULA WINDSOR, MO 65360

02 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

03 PATTERSON, SARAH
2405 PLAZA, SEDALIA, MO 65301

04 VIVIAN, DELORES
RR 1 BOX 35A, BATES CITY, MO 64011

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE
CLASS 029, BOX OF ASSORTED HONEY CANDIES

01 HAMPTON, PAULA WINDSOR, MO 65360

02 BARTLEY, DIANE
201 RAINBOW DR, COLUMBIA, MO 65201

DEPT. 0, AGRICULTURE SECT. CC, AGRICULTURE
CLASS 030, LOAF OF HONEY WHOLE WHEAT BREAD

01 HAMPTON, PAULA WINDSOR, MO 65360

02 FARRELL, MARILYN
2721 GLENDALE, INDEPENDENCE, MO 64052

03 MEIDINGER, JANICE
RT 2 251A, CLINTON, MO 64735

04 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

SECT. C, AGRICULTURE
CLASS 031, LOAF OF HONEY QUICK BREAD

01 WALTERS, MRS. ED
RT 2 BOX 172B, SEDALIA, MO 65301

02 MEIDINGER, JANICE
RT 2 251A, CLINTON, MO 64735

03 BARTLEY, DIANE
201 RAINBOW DR, COLUMBIA, MO 65201

04 FARRELL, MARILYN
2721 GLENDALE, INDEPENDENCE, MO 64052

SECT. CC, AGRICULTURE
DEPT. 0, AGRICULTURE

01 MIDWESTERN BEEKEEPERS ASSOC.
1305 SE AA HWY, BLUE SPRINGS, MO 64014

Individual Competition:

13 Entries

Total premium money given away: \$ 357.00
Total returned to fair: \$ 330.00

Total prize money: \$ 687.00

Number of entries in each class:

Class 1 -- 0 entries	Class 9 -- 5 entries
Class 2 -- 1 entry	Class 10 -- 2 entries
Class 3 -- 4 entries	Class 11 -- 3 entries
Class 4 -- 1 entry	Class 12 -- 4 entries
Class 5 -- 2 entries	Class 13 -- 6 entries
Class 6 -- 2 entries	Class 14 -- 1 entry
Class 7 -- 1 entry	Class 15 -- 3 entries
Class 8 -- 9 entries	Class 16 -- 1 entry

Group Competition:

13 Entries

Total premium money given away: \$ 258.00
Total returned to fair: \$ 88.00

Total prize money: \$ 346.00

Number of entries in each class:

Class 17 -- 2 entries	Class 21 -- 3 entries
Class 18 -- 4 entries	Class 22 -- 12 entries
Class 19 -- 3 entries	Class 23 -- 6 entries
Class 20 -- 2 entries	

Congratulations to : Individual Grand Champion


Barry Davis-Blue Springs

Group Competition:

Midwestern Beekeepers Assn.

Honey Cookery:


Paula Hampton, Windsor




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Friends and Supporters of the Beekeeping Industry:

The United States Department of Agriculture (USDA) and the National Association of State Departments of Agriculture (NASDA) are pleased to invite you to participate in a National Honey Bee Certification Workshop to be held October 24-26, 1991, at the Holiday Inn, Downtown/Riverfront, in St. Louis, Missouri. The main objective of this Workshop is to gather information leading to the development of a model honey bee certification plan for consideration by State Departments of Agriculture. Such a plan could ensure that the spread of Africanized honey bees and honey bee diseases through the movement of managed colonies will be minimized, while assuring the continuous availability of honey bees for pollination, honey production, and propagation.

NATIONAL HONEY BEE CERTIFICATION WORKSHOP

October 24-26, 1991
Holiday Inn, Downtown/Riverfront
St. Louis, Missouri

Thursday, October 24

1:00 - 6:00 pm Workshop Registration

4:00 pm Orientation and Welcoming Address
Panel - Honey Bee Certification

5:30 - 7:00 pm Social Hour

Friday, October 25

8:00 am Call to Order
Genetics and Identification of Africanized Honey Bees
Current Africanized Honey Bee Situation in Texas
Current Honey Bee Disease Situation
Panel - Africanized Honey Bee Range Expansion in the United States

1:30 pm Introduction of a Model Honey Bee Certification Plan
Working Group Deliberations

Quarantine and Package Bees and Queens
Migratory (Interstate Beekeepers)
Non-migratory (Intrastate Beekeepers), Swarms and
Movement to and from Regulated Areas
Certification and Compliance

Saturday, October 26

8:00 am Call to Order
Working Group Reports and Audience Participation

NOON
ADJOURN

USDA - NASDA
NATIONAL HONEY BEE CERTIFICATION WORKSHOP

October 24 - 26, 1991
Holiday Inn, Downtown/Riverfront
St. Louis, Missouri

REGISTRATION

Please type or print:

Name: _____ Title: _____

Address: _____

Telephone: _____ FAX: _____

Honey Bee Industry Affiliation (commercial or hobby beekeeper, user of bee services, regulatory, press, etc.) _____

Registration Fees:

Payment received:
By September 23, 1991 After September 23, 1991
\$20.00 \$30.00

Expected Arrival Time and Date: _____

Please indicate tentative work group choice: (you may give first, second, third, fourth).

- ☐ A. Quarantine and Package Bees and Queens.
☐ B. Migratory (Interstate Beekeepers).
☐ C. Non-Migratory (Intrastate Beekeepers), Swarms and Movement to and from Regulated Areas.

☐ D. Certification and Compliance:

Mail Registration and Payment to:

Mr. Joe Franke
Missouri Department of Agriculture
P.O. Box 630
Jefferson City, Missouri 65102

MAKE CHECKS PAYABLE TO: National Honey Bee Certification Workshop

Hotel reservations should be made directly to the Holiday Inn - Downtown/Riverfront Tel: 314-621-8200 Ask for the USDA - NASDA National Honey Bee Certification Workshop room rate.
Questions? Call Dr. Hachiro Shimamura: USDA-ARS, Tel: 301-344-2205 Fax: 301-344-1736.

MISSOURI STATE BEEKEEPERS ASSOCIATION

FALL MEETING - OCTOBER 19, 1991

HOLIDAY INN-CAPE GIRARDEAU

I-55 & WILLIAM ST. (RT. K)

CAPE GIRARDEAU, MO.

PLEASE REGISTER EARLY. IT IS IMPORTANT THAT WE HAVE OUR ATTENDANCE COUNT AS EARLY AS POSSIBLE. LUNCH AND MEETING REGISTRATION IS \$8.50. MEETING REGISTRATION ONLY IS \$2.00. PLEASE SUPPORT THE ASSOCIATION BY ATTENDING THE LUNCH, THIS ENABLES US TO GET THE MEETING ROOMS WITHOUT PAYING RENT.

A.M.

8:30 - 9:00 REGISTRATION

9:00 - 9:05 MEETING CALLED TO ORDER - MR. MIKE VANARSDALL, PRESIDENT

9:05 - 9:15 INVOCATION & WELCOME

9:15 - 10:00 "SIDELINE BEEKEEPING: HOW TO MAKE MONEY", BY MR. EDWARD MASON. ED IS A TERRITORY MANAGER WITH DUPONT CHEMICAL CO., AG PRODUCTS, LOCATED IN JONESBORO, ARK. HE RECEIVED HIS MS DEGREE FROM THE UNIVERSITY OF ARKANSAS IN 1969 IN ENTOMOLOGY. HE IS A SIDELINER BEEKEEPER WITH 1,000 + HIVES.

10:00 - 10:30 BREAK

10:30 - 11:15 "CONTROLLING MITES BY USING QUEENS", BY BOBBY COY. BOBBY IS A COMMERCIAL BEEKEEPER LOCATED AT BROOKLAND, ARK. HIS OPERATION IS A FAMILY BUSINESS THAT RUNS ABOUT 4,000 TO 5,000 HIVES.

11:15 - 11:45 HONEY BOARD UPDATE BY SHARON GIBBONS.

11:45 - 1:15 BUFFET LUNCH (TERRACE) SEE SIGNUP FORM FOR DETAILS.

1:15 - 1:45 "INTERACTION BETWEEN HONEYBEES AND PESTICIDES", BY EDWARD MASON.

1:45 - 2:30 "GADGETS AND ?", BY NEAL BERGMAN. NEAL IS AN ACTIVE MEMBER OF THE MISSOURI STATE BEEKEEPERS ASSOCIATION FROM KENNETT, MO. NEAL IS A COMMERCIAL BEEKEEPER WHO OPERATES 7,000 HIVES IN SOUTHEASTERN MISSOURI.

2:30 - 3:00 BREAK

3:00 - 3:30 MR. JOE FRANCKA, UPDATE OF MITES AND TREATMENT.

3:30 - 4:00 BUSINESS SESSION

4:00 - ATTENDANCE PRICES AND ADJOURNMENT

EVERYONE IS INVITED TO ATTEND THE EXECUTIVE BOARD MEETING AT 7:30 P.M ON FRIDAY, OCTOBER 18, 1991 AT THE HOLIDAY INN.

WE HAVE FORTY (40) ROOMS RESERVED AT THE VICTORIAN INN, WHICH IS NEXT DOOR TO THE HOLIDAY INN, AND OWNED BY THE SAME COMPANY. THE RATE IS \$45.00 + TAX PER ROOM FOR 1-4 PEOPLE. THE PHONE NUMBER IS 1-800-331-0445 FOR MISSOURI RESIDENTS. DON'T FORGET TO IDENTIFY YOURSELF AS A MEMBER OF MISSOURI STATE BEEKEEPERS ASSOCIATION. THE VICTORIAN INN HAS A COMPLIMENTARY CONTINENTAL BREAKFAST SERVED DAILY, INDOOR POOL. FREE DAILY NEWSPAPER AND SATELLITE TV AND SHOWTIME MOVIES. THE MOTEL IS LOCATED NEXT DOOR TO A LARGE SHOPPING MALL FOR THOSE SPOUSES WHO WANT TO GO SHOPPING DURING THE MEETING.

THE ROOMS WILL BE HELD UNTIL TWO WEEKS BEFORE THE MEETING. CALL NOW AND USE YOUR CREDIT CARD TO GUARANTEE THE ROOM IF YOU ARE GOING TO ARRIVE AFTER 6:00 P.M.



HEALTHY BEES

It's not always easy - But we can help.
Ready to use * Convenient * Efficient



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The complete high protein pollen substitute. Price and performance the beekeeper is sure to love.

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Business ads per issue:

Business Card size	\$ 7.50
Quarter page	25.00
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MSBA member	\$2.00
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If you are moving or receiving more than one copy
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We no longer can afford to send out returned newsletters by 1st. class mail. The cost to reissue a newsletter
that is returned for incorrect address is \$.95.

1991 MEMBERSHIP DUES

Notice to Local Beekeeping Clubs: if any of your members have not paid 1991 dues, their
name has been removed from the mailing list. We have had a change in Treasurers, so if a mistake has
been made, please contact Sharon or Craig Oliver. The dues have increased to \$5.00 for the year. Please
send dues and information to: Craig Oliver, 210 W. 7th., Fulton, Mo. 65251

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