

ILLINOIS STATE BEEKEEPERS ASSOCIATION

BULLETIN

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Report on Colony Collapse Disorder

By Brad Niemcek, ISBA ex patriot

The text of a speech given on September 8, 2007

It's been a big month for the phenomenon we know as Colony Collapse Disorder, or CCD. For most of us, this story is just under a year old. Let's review how all this began. The world learned about CCD because of the diligence of a Lewisburg, Pennsylvania beekeeper by the name of Dave Hackenberg. He and his son had moved 400 hives for a winter rest to a place near Tampa, Florida. Three weeks later, he and his son were stunned to discover that they had very little to inspect.

It didn't take too long for Hackenberg to realize the seriousness of the problem. "I started jerking covers off hives," he told a Fortune magazine reporter. "It was like somebody took a sweeper and swept the bees right out of the boxes."

Hackenberg got on the phone to report his discovery and was at first told that he must have made some kind of mistake in his bee yard. But as the word spread other beekeepers began calling him to say they had been losing colonies too. They got the attention of the state's chief apiary inspector, Dennis van Engelsdorp, and of the varroa mite expert at Penn State, entomologist Diana Cox-Foster.

Considering that the problem first cropped up in the Sunshine State, Florida officials were next to get involved. Jerry Hayes, Florida apiary inspector and a long-time contributor to American Bee Journal, alerted U.S. Representative Alcee Hastings to the problem. He, in turn, alerted representative Dennis Cardoza of California, chairman of the House Agriculture Committee's Subcommittee on Horticulture and Organic Agriculture. It should be noted that Cardoza's district includes the massive pollination-dependent almond groves around Modesto. There are more than 600,000 acres of those groves in California and the industry has aggressive growth plans.

Hastings and Cardoza organized hearings on the subject and testimony was solicited from a host of experts. What the congressmen heard from beekeepers, university researchers, and government agricultural officials, as Hayes has written, was "pointed, truthful and scary – so scary that the USDA was asked to convene a Colony Collapse Disorder strategy meeting."

The meeting, held in April at the University of Maryland, dealt with an incredible range of subjects – a comprehensive review of the many well-known challenges facing

the contemporary honey bee. They include:

Pests, including varroa and tracheal mites as well as small hive beetles and wax moths.

Pesticides – both those used inside the hive and well as those found in the environment within reach of foraging bees.

Pathogens, including viruses, bacteria, fungi and protozoa. Included in this group are the bugs that cause many of the bee maladies we are familiar with – nosema and brood diseases

And **environmental stresses**, which may severely limit a bee's ability to cope with all of the other problems honey bees face. There is a strong suspicion among the experts that stress, especially among colonies used for pollination services, may be contributing to a collapse of bee immune systems.

Contributors to the CCD strategy session readily agreed on one thing: We need to know a lot more about what's killing bee colonies before an antidote can be devised - learning that will require research and research will require funding.

Two important industry groups, The American Beekeeping Federation and the American Honey Producers Association, drafted a proposal to the House Committee on Agriculture for inclusion in the 2007 Farm Bill. Included were requests that the Farm Bill include support for additional and sustained research into causes of threats like CCD and for an expanded effort to better keep track on the pollination and honey production industries.

Alas, the 2007 Farm Bill approved on July 27th includes no new spending for any kind of research on bee disorders, but it does direct the USDA to make CCD a priority concern for its Agriculture Research Service, the ARS, and report back to Congress once a year on the status of the problem. (That, my friends, is what is usually called an unfunded mandate.)

The 2007 Farm Bill – House Bill H.R., 2419, if you're keeping track -- is now being considered by the Senate. I was not able to determine whether any amendments involving CCD were being considered by the Senate Agri-

culture committee. The current farm bill expires on September 30th, so action on the new bill that will establish the rules for federal government involvement in agriculture for the next five years is due shortly.

For some weeks the industry has been buzzing (please forgive the pun) about a scientific paper reporting on genetic research designed to try to identify the cause of CCD. Many knew the lead author of the paper, Dr. W. Ira Lipkin of Columbia University, the man who cracked the case of the West Nile Virus. Dr. Lipkin's paper was published recently in the journal Science. If you would like to read a report on the paper, it will cost you \$10 to download it from the Science magazine website.

What you'll learn is that Lipkin and numerous colleagues were not able to identify a single source for CCD, but they were able to identify a virus whose presence in the DNA of CCD-afflicted bees strongly correlates with bees from collapsed colonies.

The virus apparently originated in Australia. Ironically, it was first identified by researchers at Hebrew University in 2004. It is called the Israeli Acute Paralysis Virus, or IAPV. Incidentally, the U.S. approved the importation of bees from Australia that same year.

Trouble is that honeybees are burdened with what Professor Cox-Foster of Penn State calls a "boatload" of viruses. Nonetheless IAPV is what the researchers call a strong "marker" for CCD.

According to Wikipedia, "Genetic markers can be used to study the relationship between an inherited disease and its genetic cause. Genetic markers can also be used to produce normal, functional proteins to replace defective ones."

Research will continue, but there will be no major "War on CCD" funded by the feds. The experts say we'll know a lot more about whether massive colony losses will continue once we've gotten through the winter months. You can count on more news as early as February, when the pollinators will again deliver thousands of beehives to the almond groves in central California.

I came to a number of conclusions from all of the reading I did to prepare for this report.

First, the American people don't much care about agriculture and the Farm Bills that help shape it. And, the agriculture industry doesn't care much about beekeeping, honey production or pollination services. Why? Probably because wheat, corn, sugar and cotton – the big four American crops – don't require insect pollination, although soybeans do profit from it. The political clout of almond, apple and other fruit and vegetable producers doesn't amount to much.

Second, all the talk we hear about colony stress principally relates to how important so-called "migratory beekeeping" has become. That's the business of hauling hives around on semi-trailer trucks to provide pollination services. The reason that pollination services have become so important is that commercial beekeepers can't make enough money selling honey, wax and other traditional hive products because the country is awash in those products from places like China and Argentina.

And, finally, the more you read about CCD the more you conclude that, as an amateur beekeeper, you are a player in a game whose rules are made elsewhere. Whether you like it or not, you probably can't do much to avoid CCD in your bee yard beyond doing your best to keep your colonies as healthy and happy as possible. β

Although the opinions expressed by Mr. Niemcek in his speech are his own, we appreciate his willingness to share them with us.

Call for 2007 Beekeeper of the Year Nominees

The Illinois State Beekeepers Association is proud to announce the ISBA Beekeeper of the Year Program for 2007. This program is designed to recognize, on a yearly basis, an Illinois Beekeeper who most embodies, illustrates and exemplifies the key objectives of the ISBA, to promote:

- Interest in Honey Bees and Beekeeping by encouraging good Beekeeping practices in Illinois
- The utilization of Honey Bees for pollination of agricultural crops
- The dissemination of information about Honey Bees and Beekeeping.
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If you know a Beekeeper who exemplifies these objectives, is a member of the ISBA and a resident of the state of Illinois, we want to hear from you! The initial selection of Beekeeper of the Year candidates relies upon you, the ISBA membership! If you would like to nominate someone for this prestigious award, please send the following information to the ISBA Beekeeper of the Year Chairperson via mail or e-mail no later than October 22, 2007. Please send:

1. Your name, address and phone number
2. The name, address and phone number of the candidate
3. A description of why you feel the candidate should be designated the ISBA Beekeeper of the Year.

Send this information to the ISBA Beekeeper of the Year Chairperson and President:

Ken Haller
627 South Saylor Avenue
Elmhurst, IL 60126
E-Mail: vikinghoneyfarm@comcast.net
Phone: 630.359.3991

The ISBA Beekeeper of the Year will be presented a personalized plaque at the ISBA Annual Fall Meeting! Additionally, the recipient will be announced in various Illinois and National Beekeeping media.

For a listing of previous ISBA Beekeepers of the Year, please see our website: www.isba.us. β

Letter from the President

Dear Fellow Beekeepers and ISBA Members,

This past summer of 2007 has been an amazing frenzy of CCD struggles and positive publicity for all of us Illinois Beekeepers! While full CCD updates are listed below as well as later in this edition of our newsletter, the media attention continues to be high.

The 2007 Midwest Beekeeping Symposium was a huge success with 240 registered attendees and 18 new members to the ISBA! This premier Beekeeping event was an excellent source of information and truly ranks as one of 2007's premier national events. A huge thanks to the organizing committee and McHenry County College for their efforts in an amazing event.

Your ISBA Board of Directors is hard at work planning the annual meeting of the ISBA once again taking place in November at the Dept. of Ag. Headquarters in Springfield. Please plan on attending! I would encourage those of you in the Northern and Southern regions to attend as well. The meeting is well worth the drive!

Below is listed an executive summary of those most pressing updates and issues. Much more detail will be outlined on our website as well as at the annual meeting. See you there!

Colony Collapse Disorder

After almost a year of media frenzy, media inquiries have begun to subside, at least for now. CCD research is on-going, funding towards this research continues and some early results have begun to flow as well. A recent press release from the CCD Working Group points to some interesting and newly consistent findings. All colonies that died from CCD symptoms also show the presence of a new virus, **Israeli Acute Paralysis Virus**. While little is known about this virus, it is promising that the research data is beginning to show some patterns that may ultimately lead to the primary cause. Please read the full update included in this issue of the newsletter.

You can always see the latest info via the links contained within www.isba.us, within the News and Events Section. Additionally, please view our ISBA Members in the News section for the latest radio, television and newspaper articles about our ISBA members. Our members are very busy educating the media and public and this is a great way to see the coverage.

2008 ISBA Elections Just Around the Corner

As most of you know, the ISBA is completely run by volunteers! We are very proud to have some of the best in the industry on our Board of Directors and team of Delegates! Each year our annual Board positions come up for election. Any member of the ISBA and resident of Illinois is eligible to be a nominee for a position. Members at the annual meeting then vote on these nominees. The positions that are up for election this year are listed below for your convenience. If you are interested in becoming a part of the ISBA leadership and can commit to 4 board meetings per year, please contact ISBA Nominations and Election Chair, Jill Mayes by phone at 309.359.8600.

The 2008 positions open for election are:

- President
- Vice President
- Treasurer
- Secretary
- Northern Region Director

Sales Tax and Honey Bees

This past Spring, many of you ran into a new tax policy when purchasing package Honey Bees from Dadant, you were charged Sales Tax. Since sales tax on other livestock (cows, pigs, etc.) is not within the IL tax law/code, this caught many of us by surprise. ISBA Political Liaison, Rich Ramsey has been looking into this issue since this Summer. Despite numerous letters and phone calls, Rich was unable to get any comment on the situation from the State. Meanwhile, Dadant has discontinued the selling of live Bees so the issue has in a way, resolved itself. If you run into this taxation within the State, please contact me so that we may continue to assist in corrective measures.

Selling Honey at Farmer's Markets and at Retail

This past Summer the ISBA BOD received many concerned inquiries into local health dept. officials not allowing Beekeepers to sell Honey at Farmers' Markets. Apparently Beekeepers who were not able to show an approved "inspection report" of processing facilities were not allowed to sell. This issue has raised serious concern over what the State defines as "processed" food vs. food that does not need to be processed in order to sell. ISBA Vice President, Philip Raines has made some good progress in discussions with the State and is in the process of finalizing definitions as well as a final report to the ISBA. Phil will be reporting his findings at the November Annual Meeting. His findings will also be reported on our website.

ISBA Intellectual Capital in High Demand

The ISBA and its leadership continue to be in high-demand! I recently spoke to 120 at the Peggy Notebart nature museum. The 60 minute presentation discussed the issues facing modern Beekeepers as well as a CCD update. ISBA Vice President, Philip Raines will be delivering a 45 minute update to the Annual Environmental Fair in Hoffman Estates, IL. This event is expected to gather 400 attendees who are concerned about our environment and will attend to learn about ways each of us can positively affect our surroundings.

Finally, the ISBA has been recently contacted by two Illinois communities that are looking into Beekeeping Ordinances in their city limits. With our experience with the Evanston issue, we may now assist other communities to better serve their Beekeeping residents as well as their general public.

Search for Beekeeper Pollinators

The ISBA continues to look for opportunities to strengthen its relationship with growers in need of pollinators. We are planning a Pollination section to our website that connects growers with Illinois pollinator providers. If you are an ISBA member and provide pollination services, please send your name, address and phone number to me. We will list you on our website for free allowing buyers of your services to contact you directly!

Call for Chicago Beekeepers

Beginning Beekeeper, David Fourer continues to gain momentum in his goal to form a Chicago based Beekeeping Association! This group will focus on unique learning and issues facing Beekeeping in an urban environment. If you live or keep Honey Bees within the city limits of Chicago, please contact David for more information.

David Fourer
dfourer@comcast.net
773-465-9329
1623 W. Estes Ave,
Chicago, IL 60626

www.isba.us Continues to Grow

Our website continues to grow with lots of CCD information as well as media coverage by our own membership. As we continue to add information onto our site, it will require a second overhaul to keep the information and growing needs of our membership current and well organized. At press time of this newsletter, the website has been updated and will soon begin its second overhaul within 2007! Enjoy and please continue to send me your news articles, updates and desired info to include on the website.

Ken Haller
President, Illinois State Beekeepers Association
630.359.3991
vikinghoneyfarm@comcast.net

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ISBA Fall Meeting Save the Date!

Join the ISBA for its Annual Meeting, Saturday November 17, 2007 at the Illinois Department of Agriculture Headquarters in Springfield (801 East Sangamon Avenue - Springfield, IL). The meeting will begin at 9am and will end at approx. 4pm. Doors will open at 8am for registration and lunch reservations. Meeting registration will be \$5 and lunch will be approx. \$8. Your registration fee includes all meeting activities and a chance to win door prizes. This year, our keynote presenter will be Dr. James Ellis, Post-Doctoral Scientist, University of Georgia. For a meeting agenda, map and more details visit our website at www.isba.us. β

Missouri Beekeepers Meet in Hannibal

Just a stone's throw across the Big Muddy for some Illinois beekeepers, the Missouri State Beekeepers Association will host their fall meeting in Hannibal on November 2 and 3. Among their presenters are Dewey Caron—Delaware's premier beekeeper, and Dan Purvis, Georgia queen breeder.

For more information contact -

Pam Brown,
1407 Sneak Rd.
Foristell, Mo. 63348

AMERICAN HONEY PRINCESS VISITS ILLINOIS

Thoughts from

Charles Lorence, Aurora, Illinois Beekeeper

From August 9 – 13, 2007, Katie Klett, the reigning American Honey Princess was our guest in the Chicagoland area to help promote beekeeping and honey.

Dr. Lawrence DuBose invited Katie to spend two days with him at Kline Creek Farm and at the Windsor Park Manor. At the Manor, Katie entertained the residents and their guests with an interactive portrayal of what the beehive is like. She had the queen laying eggs, workers combing and feeding the queen, workers guarding the hive, cleaning the hive, tending the brood, drones doing nothing J ! This provided a great deal of entertainment for those present. Dr. DuBose invited her to meet his engineering firm where the engineers there explained their profession to her and she, in turn, told them about beekeeping and honey production. At Kline Creek Farm, there was honey tasting and a talk with the guests visiting the historical 1890s working farm. She went on a hayride to see the hives and was interviewed by several news media.

Saturday morning found Katie at the Naperville Farmers' Market where she spent several hours meeting the public. She handed out recipe folders and answered the never-ending questions about CCD, the importance of bees in pollination, the Africanized bee, and the use of honey for allergies. The afternoon was spent meeting the public at a specialty grocery store where she handed out honey samples and recipe flyers.

On Sunday, Katie spent the entire day at the Illinois

State Fair. To say that Katie was a spectacular draw would be a gross understatement. She displayed energy, enthusiasm, and elan which was contagious as she explained the happenings of the observation hive. There were often groups of 15 – 20 people listening to her as she presented important and interesting facts about honeybees and how they relate to food production. She is a born teacher and her wealth of knowledge of honeybees was impressive! Like the Energizer Bunny, Katie just kept going and going and going...

For the beekeeping industry, Katie brought a vast amount of knowledge simply because she grew up and worked in the family-owned queen breeding business. As a researcher at the University of Minnesota, Katie had more up-to-date information than most beekeepers and was able to share it with the general public. Her presence at the presentations brought a contagious interest in all she had to offer. However, it was her personality that really impressed us. Without any 'down time,' Katie continued a rigorous schedule for five days straight, never missing an opportunity to promote her product and the beekeeping industry/hobby.

I think all of the Illinois beekeepers who met Katie would concur that this was a wonderful way to promote our product. We feel very fortunate to have had the opportunity to host Katie and want to thank all those who helped make this possible. The American Beekeeping Association, the Illinois State Beekeepers, the Cook DuPage Beekeepers, and specifically Dr. Lawrence DuBose were instrumental in making her reception a fine one. β

APIARY INSPECTION SUPERVISOR'S REPORT

Steve Chard, Illinois Department of Agriculture

The 2007 Illinois State Fair has come and gone. I'm sure that many children and adults will have lasting positive memories of the ISBA/local beekeeping associations' exhibit in the Illinois Building at the Fair. From the honey ice cream to the observation hive to the display of honey and other honey related products to the conversations between the folks behind the counter speaking to the public on beekeeping, without a doubt, the Apiary Industry was very well represented. Observation hives were also placed in Conservation World and in the Illinois Department of Agriculture tent. It takes a lot of hard work on the part of numerous individuals to put together and carry out these types of activities successfully. I always receive a lot of good comments from people who experience the exhibit and the observation hives. A big pat on the back for those folks who contributed their valuable time and effort in making this one of the best exhibits at the Fair!

I'm pleased to announce that the Illinois Department of Agriculture has received USEPA Section 18 approval for the use of "Hivastan" in Illinois for varroa mite control in beehives. Essentially, the product is used as a patty for the bees to remove and spread around the hive. It must be used in the spring or fall seasons before or after honeyflow, respectively. By the time you receive this newsletter, both Dadant and Mann Lake should have the product available for sale. Of course, following label instructions is imperative with the use of this product. If you would like to receive additional information, feel free to contact Ms. Cathy Elmi with Wellmark International at 847/330-5375 or e-mail Ms. Elmi at celmi@central.com Wellmark International is the manufacturer of Hivastan. It's good to have another weapon in

the arsenal for controlling varroa mite.

All of us continue to be very concerned about CCD possibly emerging in Illinois and are closely monitoring this situation. If you believe your colonies may have CCD, please contact me at 217/782-6297 or your Department Apiary Inspector so arrangements can be made for an inspection. We will provide CCD updates as they become available.

Aside from additional finds of Small Hive Beetle, few problems continue to be detected as the Department conducts apiary inspections throughout the state. Unfortunately, Livingston County is the latest for a new find of SHB, bringing the total number of counties in the state with SHB to 16. There are no major outbreaks that we are aware of in Illinois, but everyone needs to be alert for the beetle and to please contact me or our Apiary Inspectors if you believe SHB is present in your colonies. If your colonies definitely have SHB, please be sure to use GardStar and Checkmite Bee Hive Pest Control Strips, as instructed on the label for those products for needed control. In addition, many beekeepers have indicated that their honey crop is very light this year. If anyone has theories on why this is happening, I would appreciate receiving them.

Don't forget to mark your calendars for the ISBA Annual Fall Meeting on Saturday, November 17. The Department is pleased to again host this important meeting at our building on the Illinois State Fairgrounds. More information will be provided in the next ISBA Bulletin.

As usual, please feel free to contact me or our Department Apiary Inspectors if we can be of service to you. β

	2007 Illinois State Fair Open Class								
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
14722: Frame of honey for cut-comb	James Belli Wadsworth	Charles Lorence Aurora	Patricia Nigel Girard	Robert Walters Athens					
14723: Display of white cut-comb honey in plastic boxes	Valerie Simpson Kansas	Charles Lorence	James Belli	Andy Gano Ashmore					
14724: White Comb honey, 3 sections	Andy Gano	Gabriel Gerberding Jacksonville	Fred Gerberding Rochester	Audrey Gerberding Jacksonville	Valerie Simpson				
14725: Comb Honey in rounds, 3 sections	Valerie Simpson	Andy Gano	James Belli						
14726: Light extracted honey:	James Belli	Charles Lorence	Robert Walters	Garrett & Grant Kaiser Springfield	Larry Waller Marshall	Audrey Gerberding	Amanda Manley Wheaton	Valerie Simpson	Gabe Gerberding
14727: Amber extracted honey:	Garrett & Grant Kaiser	Robert Walters	Audrey Gerberding	Fred Gerberding	Andy Gano	Steven Blickham Springfield	Valerie Simpson	James Belli	Larry Waller
14728: Dark extracted honey:	Larry Waller	Robert Walters	Garrett & Grant Kaiser	Fred Gerberding	Charles Lorence	Valerie Simpson	Andy Gano	Audrey Gerberding	Gabe Gerberding
14729: Amber chunk honey:	Robert Walters	James Belli	Larry Waller						
14730: Light chunk honey:	Robert Walters	James Belli							
14731: Chunk honey in square jars:	James Belli	Robert Walters	Garrett & Grant Kaiser	Valerie Simpson	Larry Waller				
14732: Creamed honey:	James Belli	Charles Lorence	Audrey Gerberding	John Hansen LaGrange	Valerie Simpson	Susan Schoephoester Chicago	Garrett & Grant Kaiser	Robert Walters	Fred Gerberding
14733: Beeswax in commercial forms:	Charles Lorence	Andy Gano	Larry Waller	Valerie Simpson	James Belli	Fred Gerberding			
14734: Beeswax art design:	Fred Gerberding	James Belli	Valerie Simpson	Larry Waller	Andy Gano				
14735: Beeswax candles:	James Belli	Nicholas Barrows Springfield	Audrey Gerberding	Charles Lorence	Andy Gano	Garrett & Grant Kaiser	Gabe Gerberding	Fred Gerberding	Valerie Simpson
14736: Sweepstakes:	James Belli	Robert Walters & Valerie Simpson Tied For 2nd		Andy Gano	Charles Lorence	Larry Waller			

Illinois State Fair

2007 Bees and Honey Professional Class

	1st Place:	2nd Place:	3rd Place:	4th Place:
Display of white comb honey	St.Claire	Illiana	Lincolnland	Cook-Dupage
Frame of honey for extracting	Cook-DuPage	St Claire	Lincolnland	Illiana
Frame of white for cut-comb	Lincolnland	Cook-DuPage	St Claire	Illiana
Frame of amber for cut-comb	St Claire	Cook-DuPage	Lincolnland	Illiana
Amber cut-comb in plastic boxes:	St Claire	Lincolnland	Illiana	Cook-Dupage
White comb honey in plastic boxes:	Illiana	Cook-DuPage	St Claire	Lincolnland
White comb honey in round sections:	Cook-DuPage	St Claire	Illiana	Lincolnland
Light extracted Honey 50 lbs:	Cook-DuPage	Lincolnland	Illiana	St Claire
Amber comb honey in round sections:	Illiana	St Claire	Cook-DuPage	Lincolnland
Amber extracted Honey 30lbs:	Lincolnland	Cook-DuPage	Illiana	St Claire
Dark extracted Honey 6 one lb. jars:	Lincolnland	Cook-DuPage	Illiana	St Claire
Variety of Honey:	Lincolnland	Cook-DuPage	Illiana	St Claire
Designs in comb honey:	Lincolnland	Cook-DuPage	Illiana	St Claire
Chunk honey in 2 1/2 lb square jars:	Cook-DuPage	St Claire	Illiana	Lincolnland
Light Chunk honey:	Lincolnland	Cook-DuPage	Illiana	St Claire
Amber chunk honey:	Lincolnland	St Claire	Illiana	Cook-Dupage
Commercial Beeswax:	Cook-DuPage	Lincolnland	Illiana	St Claire
Art Designs in Beeswax:	Cook-DuPage	Lincolnland	St Claire	Illiana
Photography:	Lincolnland	Cook-DuPage	St Claire	Illiana
Creamed Honey:	Cook-DuPage	Illiana	Lincolnland	St Claire
Honey Gift Pack:	Cook-DuPage	St Claire	Lincolnland	Illiana
Best Booth:	LincolnLand			
Sweepstakes:	Cook-DuPage	Lincolnland	St Claire	Illiana

Membership in the Illinois State Beekeepers Association is open to all persons interested in bees and beekeeping. Beekeepers are urged to join through their local associations. Dues for 2006 are \$6 for the calendar year January 1 through December 31 only. Dues include a subscription to this newsletter, the ISBA Bulletin. Beekeeping journals are available at about 25% discount to members as listed below; rates are subject to change without prior notice. Make checks payable to: Illinois State Beekeepers Association and mail to: Rita Taylor, Secretary, 4274 Taylor Homestead Road, Pleasant Plains, IL 62677-4024

Please indicate new or renewal subscription when ordering journals.

Address Changes: Send old and new address six weeks prior to date of change when practical to the association secretary.

Reduced Journal Rates for 2006 (*members only*)

	1 yr	2 yr	3 yr
American Bee Journal	18.70	35.40	49.80
Bee Culture	21.00	38.00	N/A
The Speedy Bee	13.25	25.25	34.00

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