



The Buzz

Newsletter of the Iowa Honey Producers Association



May 2011

**2011 Bid Sheet for Honey Sales at the
Iowa State Fair Pg. 5
Happy Spring Pg. 6
Beekeeper of the Month Pg. 8**





June 18 Advanced Beekeeping class (must pre. register) Queen production and honey production

July 6 filed day @ Spring Valley Honey Farm Perry

July 6 Board Meeting after field day

August 11-21 Iowa State Fair

September 11 Board meeting @ DIC conference room at DMACC Ankeny

November 3 Board meeting at Marshalltown Bestwestern

November 4 - 5 Annual Meeting at Marshalltown Bestwestern



For Sale Package Bees

The package will consist of bottom board, 9 5/8 - 10 frame hive body with bees and 9 frames, entrance reducer, insulated inner lid and metal outer lid. New Italian queen. This is not new equipment. It is painted used equipment in good condition. The total for this hive package will be \$145.00 I will need a \$45.00 deposit when you order and the package will be ready for you to pick up June 1st at Monticello Iowa barring weather conditions. Our bee yards are inspected by Iowa Bee inspectors. I will only be selling 30 package hives this year. I have 40+ years experience in bee-keeping.

Send deposit to Curtis Barnhart, P. O. Box 70, Monticello, IA 52310 with your name, address and phone number that you can be reached at. I am out of town until March 24. You can call and leave a message at my office (American Supply)

Or autum49@yahoo.com

Thank you.

Curtis Barnhart

319 465-6655

(6/11)

For Sale: 5 frame Nuc with an Italian Queen - \$100.00 Also a few singles also with an Italian Queen - \$135.00.

For more info, call Pat Ennis @ 1-515-293-2601.

5/11

Advanced Beekeeping Class

Through many suggestions, I am offering an Advanced Beekeeping Class. Requirements are at least one years' beekeeping experience. These classes will be 'hands on'.

There will be 2 classes. The first class will be April 23, at Spring Valley Honey Farms in Perry on 'Splitting Hives and Diseases'. The second class will be June 18th, at the Pat Ennis home in Goodell, on 'Queen Production'. The time is 9:30 - 4:30 for each class. For noon break, we will have a pot-luck. Registration will be limited to 20 people. Pre-registration is required. The cost is \$25 per class. Please call 515-293-2601 to register or with question. We have been asked to have such a class and this is a testing of the waters to see if there is a need or demand for such a program.

BEE HAPPY!!

Pat Ennis

6/11

Congratulations Design Contest Winners!

Zachariah Hicks from Algona, a former youth scholarship winner, is one of the contest winners. Alex Ebert, the editor of our newsletter, THE BUZZ, is the other contest winner. Both of these designs will be used to promote the 100th Anniversary of the Iowa Honey Producers Association for 2012. Congratulations to both of these winners.

The Anniversary Committee is hard at work with plans for the big celebration. Most of the plans are in the early stages. As soon as we have things decided and in place we will let the membership know what to expect. If you have ideas that you would wish to share, please let me know or any committee member would be happy to relate your idea.

My contact information is Donna Brahms 14922 535th Street Griswold, IA 51535 mbrahms@netins.net (712) 778-4256 home and orchard (402) 677-2460 cell .

The Buzz Newsletter Article Submissions and IHPA Memberships

Please send submissions, classified ads, and photos to Alex W. Ebert by email to TheBuzz@ABuzzAboutBees.com or by mail to The Buzz, c/o Phil Ebert, 14808 S. 102nd Ave. E., Lynnville, IA 50153. **The deadline for submissions is the 15th of each month to be included in the following month's newsletter.** The Buzz is a monthly newsletter published by the Iowa Honey Producers Association which is an affiliate of the Iowa State Horticultural Society. IHPA Membership is only \$10 annually. To join IHPA and receive your complimentary member subscription to The Buzz Newsletter, please contact Melanie Bower, IHPA Treasurer, 207 S.E. Diehl, Des Moines, IA 50315, Phone: (515) 287-6542

Greetings from the President

April is a very busy time for beekeepers. The month started out pretty nice but turned nasty pretty quick. My bees out of California came back very light this year. I have fed many rounds of corn syrup and protein supplement already but still occasionally find a strong hive full of brood that has starved. The strong hives that came out of the almonds are full of brood and go through a lot of food to keep the brood incubated. The cold weather may slow down colony build up but by the time you read this I'm confident the weather will have warmed and the bees will be starting to whiten the comb with dandelion nectar. I saw a south facing hillside covered in yellow on April 8th but then the cold, rainy weather set in. My package order was delayed by two weeks because of the cold, wet, and windy weather in California. They just simply couldn't get Queens mated out there. I'm a little worried about the quality of the early Queens because if the queen gets out in marginal weather she may only get mated by a few drones rather than 15 or 20 needed for a good prolific queen. The queen will leave the hive on additional mating flights if she wasn't successful the first time. The problems happen when marginal weather is followed by very cool or windy days. In that case if the queen has mated with only a few drones and is unable to get out on additional mating flights she will start laying and will be caged and sent out. Many times she will lay a cycle or two of brood then turn drone layer. I don't raise queens and I'm not very knowledgeable about many of the steps and intricacies of queen rearing. In the situation of poor queen mating conditions because of weather, I think it's nearly impossible for a breeder who's trying to produce hundreds and thousands of queens a day to analyze whether each queen is mated properly. I think it may actually be very hard to know simply because the queen's eggs and brood pattern look normal in the beginning. I better quit talking about queen rearing because I just admitted to not being any kind of expert so I hope I haven't already misstated any facts.

The point is Mother Nature plays a BIG part of all aspects of beekeeping and this year early queens out of much of California have a higher probability of going bad before the end of the season. I don't think it will be that bad though just a few more bad ones here and there. I don't like to preach the doom and gloom but just feel it helps beekeepers, especially new ones to know some gloomy facts to better recognize and react to problems in the hive. Now, how would you recognize and how should you react. Many times as a queen starts going bad she will lay some unfertilized eggs (Drone) interspersed with the normal fertilized eggs (worker bees). You will recognize this during a hive inspection by noticing the larger pupae or after the brood is capped the drone cells stick up or stick out further than the normal brood. Queens always lay a certain percentage of drone eggs throughout spring and summer but those are usually laid on the fringes of the comb or in large patches any where on the comb. It's only when you see the larger capping haphazardly mixed in with worker brood when you need to think about requeening. Some times by the time you notice the queen is simply laying all unfertilized eggs. Many times the hive is not salvageable at this point. Other times the old queen is actually gone and the have raised a new one but she was not properly mated. Possibly the queen has been gone for a while and you have a few or many worker bees who have developed into laying workers. I just realized that you experienced beekeepers already know this stuff and for the new beekeepers if you do recognize a queen going bad, react by studying on the internet, reading books, contact your state apiarist or speaking to an experienced beekeeper. The southern part of the U.S., I think, mostly had better mating conditions so they were able to stay on schedule much better. Even after describing these queen problems, I should say keep an eye on the queens, but I think most of them will be just fine and it's only a problem with the earlier queens not the later ones that had better mating weather.

Enough of that, back to packages, I decided to shake some packages out of my own bees to take care of some of the more anxious people. That seemed to go pretty well but I was a little worried about chilling brood with my methods but I think that all came out OK. Shaking packages is a new thing for me here and it's only possible because they have a big population from being out in warmer weather and on a pollen flow from the almonds. I seem to spend more time talking about the bees than informing you of current happenings of the IHPA. Alex had to email me to ask me to get the message done so I did this at the last minute. I would like to invite any or all committee chairs to submit articles about what they have accomplished in their committees lately so we can keep everybody informed.

Have Fun and Work Hard,
Curt Bronnenberg

Iowa Honey Queen

Dear IHPA,
On March 26th I spoke to the Gardener's club in Boone at the hospital. It was my first talk as the Honey Queen and everything went great. Then on April 10th I spoke to the Madrid 4-H club and made caramel corn with them. It's been kind of crazy between work, school, home, and my duties as Honey Queen. I am loving it so far and sorry this letter is so short but I have had a week full of tests and my brain is on overload. Have a wonderful month.

Ellie Johnson
2011 Iowa Honey Queen

2011 Membership Renewal

May 2011 will be the **last issue** of the Buzz that will be mailed to members who have not paid their 2011 dues. The expiration date is located above your name on the Buzz. The first membership is still \$10.00 and \$5.00 for each additional family member that would like a membership and is living at the same address.

Melanie Bower, Treasurer

IHPA STATEMENT OF FINANCIAL POSITION AS OF SEPTEMBER 30, 2010

The financial records for the Iowa Honey Producers Association were submitted to Denman & Company, LLP in September 2010. They reviewed the data and made the statement that they were not aware of any modifications that would need to be made to IHPA financial statements in order for them to conform to generally accepted accounting principles.

REVENUES AND OTHER SUPPORT:

Sales of food, publications, merchandise	\$67,530.00
Membership dues	3,696.00
Annual meeting income	6,913.00
Advertising	1,899.00
Contributions	1,810.00
Interest income	307.00
Other	3,709.00
Total revenues and other support	<u>\$85,864.00</u>

EXPENSES:

State Fair	\$18,186.00
Cost of goods sold	28,044.00
Queen program	3,870.00
Annual meeting	8,029.00
General	8,746.00
Buzz/Postage	5,191.00
Contributions	3,100.00
Other	2,150.00
Total expenses	<u>\$77,316.00</u>

Change in net assets for 2010 \$8,548.00

CURRENT ASSETS:

Cash	\$67,006.00
Certificate of deposit	\$1,000.00
Inventory	\$1,750.00
Total Assets:	<u>\$69,756.00</u>

CURRENT LIABILITIES:

Accounts payable	\$376.00
Sales tax payable	\$503.00
Deferred revenue - prepaid dues	\$1,061.00
Total liabilities	<u>\$1,940.00</u>

NET ASSETS

Unrestricted	\$66,816.00
Permanently restricted (Herman Bickle Cert)	\$1,000.00
Total net assets	<u>\$67,816.00</u>
Total liabilities and net assets	<u>\$ 69,756.00</u>

Iowa State Fair Summary:

Sales:

Lemonade	\$30,145.00	
COGS	<u>\$5,069.00</u>	\$25,076.00
Honey	\$28,102.00	
COGS	<u>\$18,891.00</u>	\$9,211.00
Cookbooks	\$363.00	
COGS	<u>\$192.00</u>	\$171.00
Queen candles	\$1,296.00	
COGS	<u>donated</u>	\$1,296.00
Wax & Misc.	\$6,293.00	
COGS	<u>\$3,659.00</u>	\$2,634.00
Gross profit		\$38,388.00

Expenses:

Fair commissions	\$11,386.00	
Food permit	\$1,752.00	
Tickets/passes	\$412.00	
Camping fees	\$345.00	
Health certificate	\$33.00	
Food sponsorship	\$130.00	
Travel & meals	\$366.00	
Prize-observation hives	\$40.00	
Flyers - Queen	\$587.00	
Credit card fee	\$187.00	
Management fee	\$1,500.00	
Misc. supplies	\$1,448.00	\$18,186.00
STATE FAIR PROFIT/LOSS		<u>\$20,202.00</u>

Annual Meeting:

Income	\$6,913.00
Expenses	<u>\$8,029.00</u>
ANNUAL MEETING PROFIT/LOSS	<u>-\$1,116.00</u>

Melanie Bower, Treasurer

2011 BID SHEET FOR HONEY AND PRODUCTS TO BE SOLD AT THE IOWA STATE FAIR SALES BOOTH

Bid on any or all items (state quantity you will supply and bid price)

1 lb. Jars--light honey.....

12 oz. Bears--light honey.....

2 lb. Jars--light honey.....

24 oz. Bears--light honey.....

5 lb. Jugs--light honey.....

1 lb. Skep--light honey.....

Gallons--light honey.....

50 or 60 lb. Pails (for lemonade).....

4 oz. Antique Jars.....

Comb Honey.....

8 oz. Antique Jars.....

1 lb. Plastic jars--light honey.....

Hard Honey Candy(assorted).....

Creamed Honey-regular.....

Creamed Honey-flavors.....

Beeswax Candles.....

Other Beeswax Products.....

Beeswax Bars(1 oz., 1/2 lb., 1 lb.).....

NOTE: We need a substantial supply of comb honey in plastic boxes and section comb honey. This item is usually in short supply and thus bidding doesn't make sense. We will accept cut comb in plastic boxes and wooden and round section comb containers. Quality standards for all comb honey are: clean cappings and all cells capped. Cut comb in plastic boxes must be well drained with little or no liquid honey. We will pay **\$5.25** per unit for cut comb in plastic boxes or section comb honey which weighs at least 14 ounces. We will pay **\$4.00** for comb honey in round containers that meet quality standards. Honey from all suppliers must be 2011 crop, Iowa honey with 18.5% of less moisture content and excellent overall quality. All of the containers need to be at a uniform fill line and free from foam. The IHPA booth manager has the right to refuse any containers not meeting this standard. Winning bids will be based on price, quality and ability to provide required quantity of product for the entire fair. All winning bids will remain in effect for the duration of the Iowa State Fair.

Bids must be received by June 30, 2011. Please sign the bid sheet and provide address and phone numbers. Suppliers of State Fair Honey will use their own business label on products supplied for State Fair Sales. Labels must be attractive with preprinted wording, which includes name and address of the supplier and net weight of item supplied. Include one sample of your label with the bid sheet. The IHPA booth manager may limit the number of flavored creamed honey for sale due to lack of adequate sales space.

NOTE: Arrangements need to be made to pick up any unused product between **9 p.m. & 10 p.m. Sunday, August 22nd** or **8 a.m. to 10 a.m. Monday, August 23rd**, 2011.

Your signature _____ Name(printed) _____

Business Name _____

Address, City, Zip _____ Phone &/or Cell _____

Return to: W. John Johnson 3422 Clinton Court. Ames, IA 50010 (515) 450-5606

Remember: This is the major money making event for the Iowa Honey Producers!!

Happy Spring.

I saw my first couple dandelions yesterday, April 13th. How's that for an observation meaningless to the rest of the world? Did your bees winter better this past winter than the year before? Here's hoping. Our AIA winter loss survey hasn't taken place yet this year, so I don't have "real" numbers, but it sure seems that most of us are in better shape this spring than we were in 2010. According to the AIA survey, Iowa beekeepers lost 74% of our colonies between Oct 2009 and April 2010. My very rough guess (and that's really all it is at this point in time) is this year we'll come in around 45 – 50% losses. Not great, not even good really, and not sustainable ... but better than finding three deadouts to every live cluster of bees. We'll see where the "real" numbers come in at.

Last spring started off pretty good too. The bees were building up nicely. Then it started raining. We all remember this. Swarming was a huge issue for many of us. Across most of the state, the colonies had grown and were about ready to start bringing in the nectar when they found themselves more or less confined to the interior of the hive by rains, winds, and cool temps. On nicer days, they flew but found little nectar. Multiple supercedure and swarm cells were found in so many hives – including brand new colonies started from packages a month earlier. Our inspections were also limited to the less-wet days. We found a lot of Chalkbrood last spring, often in relatively severe strength, which persisted through the first half of the summer. European Foul Brood also was also found in higher than average frequency. Varroa mite numbers started off relatively low last spring – most likely due to colonies with higher mite populations having crashed and collapsed during the rough 2009-2010 winter. But, as can be expected, the low Varroa numbers became high Varroa numbers if left

untreated throughout the season. Here's hoping for a great 2011 spring which will put all that negativity well behind us, and set us up well for a busy honey flow.

I hate Varroa mites. I get tired of thinking about them, stressing about them, spending money on controlling them in my hives, and observing them destroy so many of Iowa's colonies each year. There's nothing glamorous about them. They're not sneaky little things - they're just very good at feeding off of our bees in a very predictable way until the bees lose the battle, every time. Sick, weak, infected, infested bee colonies don't make surplus honey or do an adequate job pollinating. Sicker, weaker, more infected, more infested bee colonies die. We have a new product this spring to kill

male mites crawling around on the adult bees during the time of treatment. It's a naturally occurring organic acid which is important for those of us working towards a successful, more-natural beekeeping method. For too long, "natural" or "treatment free" beekeeping has more or less meant dead bees each spring. I don't mean to over-hype this product, but it sure is a nice alternative to, say, Bayer's Check-mite+. We need to move toward utilizing "softer" chemistries for mite control if we're concerned with keeping healthy, live bees and maintaining the pure image of honey in consumers' minds. MAQS is exciting, but it's not the only "soft" miticide out there. Apiguard (thymol based) has been available for several years now and still works very well given a bit of luck with the weather each spring or fall.

Hopguard is another new product promising effectiveness and soft chemistry (made from the beta acids of hop bines' cones). Hopguard isn't yet approved in IA, but here's hoping this will change.

Enough (for now) about mites. *Nosema ceranae* has many of us on alert. There is still a good deal to be learned about *Nosema ceranae*. We've all become relatively comfortable

with *Nosema apis* in our colonies. We know its symptoms and its tendency to weaken our colonies over winter, usually without killing them outright. But, we just aren't finding *Nosema apis* recently. Currently, it all seems to be *N. ceranae*. It may be playing a part in CCD. It may be a main reason why we're finding so many boxes containing plenty of honey but nearly no bees come spring. The major symptom of fecal spotting long-associated with *Nosema apis*, may or may not be observed with *N. ceranae* – the bees seem to do a better job at "abandoning ship" following infection. As more and more workers become infected, more and more fly from the colony, the cluster dwindles in size til it can't maintain itself, and game over. Cer-

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Varroa, MiteAway Quick Strips from NOD products up in Canada. This stuff has just been released, so not too many people have any personal experience with it but it's a very promising product. MAQS is a formic acid miticide. People have been using formic acid in one form or another for years and years. It kills mites well and no known level of resistance exists against it. What makes MAQS "special" is its method of delivery. Two little pads sit on the top bars of the upper hive body. Seven days later, the treatment is over. No spacer rim is required (contrasted with other formic methods). MAQS promises to kill the male mites behind pupal cappings – taking out the next generation of Varroa in your hive, not just the adult fe-

tainly this isn't anywhere near the whole story of CCD, but it MAY be playing a significant part along with other factors. Fumagilin-B has been available for years to treat Nosema. It works well (currently) on both *N. apis* and *N. ceranae*. But it's somewhat expensive and if everyone starts using it religiously, how long can we expect it to continue to work well?

I recommend keeping an eye on *Nosema ceranae* and treating only when necessary. I'm happy to look at bee samples and give you a spore count which you can use to make your decision to treat or to not-treat. It seems a good strategy with this fungal parasite is to sample in spring (when infection is at its highest level), then use the information to make a treatment decision for late summer /early fall (following removal of honey supers). Please feel free to send me bee samples for this analysis. A sample should consist of older foragers since they'll contain the highest spore counts. Catch the bees from the entrance of the hive for best results. Avoid the younger, nurse bees in with the brood frames. Capture 30 or so bees under alcohol in a small jar with a tight-sealing lid. Regular old rubbing alcohol is perfect. This is your sample. If you have several hives, feel free to take multiple samples. Label them individually if you want individual analysis. Pack the container(s) to avoid leakage and mail them to me along with your address and contact info. I'll take a look and get the spore count to you, then, you can make a more informed treatment decision come time to do so. My address is below.

Ok, thanks. Have a great spring! Let me know if you'd like to request an apiary inspection as your bees are building up. See you.
Andy

Andrew Joseph
IDALS - State Apiarist
Iowa Lab Facility
2230 South Ankeny Blvd.
Ankeny, IA 50023

THE BEEYARD REPORT

I don't know how Randy Oliver does it. I have trouble pumping out The Beeyard Report every month. It's just of the top of my head. I don't have to do research. Randy's articles take a lot of research. Sometimes, the list of credits for his articles fill the better part of a page. His most recent article in the Bee Journal put together a lot of things I have been seeing. The mite load bees tolerate has gotten smaller. We used to be able to treat relatively large loads and have the bees survive. That has changed. Randy described it as the mite/virus relationship. The viruses have adapted to transmission through the mites. When the mites bite into a pupae or adult bee, they not only weaken the bee, but they also inoculate them with a virus. Sometimes I wonder how we keep any of the colonies alive.

I have been surprised that most of the little colonies that had spotting on the top bars have survived. The clusters are small but the queens are laying eggs. We started moving brood around on March 30 to boost those colonies. If we can get them up to three frames of bees in early April, they are package size and can turn into a good colony if the queens hold up. I would say our average colony has a box full of bees and three or four frames of brood at this writing in early April.

We can take one or two frames away at this point and still have plenty of bees left behind.

If we move frames of brood in the same yard, the bees have a tendency to go back where they came from. Pat Ennis told me that a California bee inspector told him that you could put a board tilted up against the entrance so the bees have to come out the side. They would then reorient and come back to the box you wanted them in. From the colonies I have seen so far, I would say it works.

I was talking to Duane Dufoe at the Oskaloosa bee meeting last month. He mentioned that he had seen a lot of colonies fail in the third year.

This got me to thinking. I went back through three years of yard notes. I found this has happened to us a lot. I have come to think of it as the third year syndrome. In my judgment the failures would be from accumulated stress most likely exacerbated by high mite loads. Every year there are yards where the mites get the best of me. This gets complicated when poor nutrition and insecticides enter the picture.

The first load of packages is history. We survived. It went a lot smoother than last year. We had about 125 people pass through our place.

Larry Brunell came down from Grinnell to help. He also agreed to help us do our splitting. I don't think it was more than two hours after we had that conversation than the phone rang. It was Craig. The guy that was supposed to go to California with him had a wife that had gone into premature labor. Craig needed a new driver. Alex was sick. So, it was back to Larry--"Would you like an all expense paid trip to California?"

He was up for it. When I last talked to them, they were out around Reno.

We have also bought a few colonies of bees. We need to get those moved home sooner rather than later. The spring is always challenging--the fall, even more so

It must be spring. There are frogs out there--- when it is above freezing anyway. Happy spring

Submitted by Phil Ebert



Featured Beekeeper of the Month

This month our featured beekeeper of the month is Elmer Lynn. He and his wife of 49 years have lived in Pleasant Hill, Iowa since 1964. Elmer is not a beekeeper; his business was supplying containers to beekeepers and many others so they could market their products. Elmer has decided to retire, maybe we should just say slow down his pace, now that he turned 89 on January 15 of this year. Readers will be happy to hear he is in good health.

Plastic containers have not always been his main interest. Elmer started out working for a company doing machine tool for several years. Then the Air Force had his attention for about 5 years. Next he packaged ice cream, eventually being promoted to testing and selling equipment. He has been selling plastic containers since 1962, working out of his garage stocking, sipping, billing and doing inventory. Besides selling containers, he also worked to design them. In 1964 he designed his first milk bottle. He sold five-quart ice cream pails and containers to dairies throughout the mid west. He worked with the custom molding division of a plant in Missouri and designed 14 of his own containers. It seems he had an idea that rectangle shaped containers took less space and supplies, and saved money.

Elmer has operated his nationwide container business for many years and his ideas have helped improve the way businesses large and small package their products, thus making our lives easier. He knows everybody, including Col. Sanders. He helped change the storage of frozen eggs from metal cans to plastic, has sold containers to companies like Tyson, Sysco Foods, Wilson, all the big meat packers, pharmaceutical companies and the list goes on. He sold George Hormel canisters that hold 3 pounds of shortening. In 1978 the Food and Drug magazine gave him a national award for the sales appeal category. This included containers for all



Elmer Lynn shows a wide variety of containers available to beekeepers through BL Plastic Containers.

pharmaceutical, drug, chemical, cosmetics, food, farm chemicals, etc. Elmer and his wife traveled to New York City in December of that year for the award dinner. All this hard work and Elmer says he doesn't know how he got into the honey container business. Honey producers in Iowa are happy he did. Would you believe he has logged 3 million miles in air travel promoting and selling his products? He says his success is accomplished by exposure to customers, a good work ethic, quality products, honesty, and fair prices. Being a humble person he won't mention his quick friendly smile, willingness to help customers, and caring about their needs not to mention remembering their names, is probably his strongest asset.

On December 20, 2010 Elmer sold his business to Garry Wilaby and his son Darran. They live about twelve blocks away in Pleasant Hill. Garry and Darran use Elmer's old phone number, 515-266-6112 and their email address is www.blplasticcontainers.com

I am sure all of us are going to miss Elmer and his friendly smile at the state honey meetings. We do wish him well in his retirement. We are confident that he was just as diligent in choosing his

successor as he was with everything else he did and know we will be treated to the same excellent service we have come to enjoy.

Best Wishes Elmer!!!
Submitted by Ron Wehr

HONEY COOKIES

Printed from COOKS.COM

1 cup butter or non-hydrogenated vegetable shortening

1 cup honey (or to taste)

1 tsp. baking soda

1/2 tsp. ea. cinnamon, cloves, allspice

3 3/4 cups white whole wheat flour

In a saucepan, cook honey and butter together until it reaches the boiling point.

Remove from heat and set aside to cool.

Whisk or sift together flour, baking soda and spices until no streaks remain. Add sufficient flour to the honey and butter mixture to make a soft dough (about 3 3/4 cups). If dough seems too sticky, add a tablespoon of flour at a time. If dough seems too dry or dense, add a tablespoon of milk until dough is of a good consistency. Form the dough into thin rolls, wrap in wax or parchment paper and chill thoroughly in refrigerator for at least 2 hours. Slice into 1/8-inch thick slices and bake in a preheated 375°F oven for about 10 minutes or until done. Variation: Add raisins, Craisins, chopped dates, or nuts (about 1 cup) if desired. Vanilla or finely grated citrus peels may be added for extra flavor.

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10 Frame Hive Body Kit

- 1 9 5/8" Assembled 10 Frame Hive Body
- 10 9 1/8" Assembled Frames with
- 10 8 1/2" Waxed Rite Cell® Foundation *or*
- 10 9 1/8" Standard Wax Coated Plastic Frames

HK-180	10 Frame 9 5/8" Hive Body Kit Wood Frames.....	\$57.95
HK-185	10 Frame 9 5/8" Hive Body Kit Standard Plastic Frames.....	\$55.50
HK-190	10 Frame 9 5/8" Hive Body Kit Wood Frames Painted.....	\$61.95
HK-195	10 Frame 9 5/8" Hive Body Kit Standard Plastic Frames Painted.....	\$59.95

**Assembled 10 Frame
9 5/8" Hive Body Kit**

Also Available in 8 Frame



**Assembled 10 Frame
6 5/8" Super Kit**

10 Frame Super Kit

- 1 6 5/8" Assembled 10 Frame Super
- 10 6 1/4" Assembled Frames with
- 10 5 5/8" Waxed Rite Cell® Foundation *or*
- 10 6 1/4" Standard Wax Coated Plastic Frames

HK-200	10 Frame 6 5/8" Super Kit Wood Frames.....	\$46.95
HK-205	10 Frame 6 5/8" Super Kit Standard Plastic Frames.....	\$44.50
HK-210	10 Frame 6 5/8" Super Kit Wood Frames Painted.....	\$49.95
HK-215	10 Frame 6 5/8" Super Kit Standard Plastic Frames-Painted.....	\$47.95

**Assembled 8 Frame
6 5/8" Super Kit**

8 Frame Super Kit

- 1 6 5/8" Assembled 8 Frame Super
- 8 6 1/4" Assembled Frames with
- 8 5 5/8" Waxed Rite Cell® Foundation *or*
- 8 6 1/4" Standard Wax Coated Plastic Frames

HK-600	8 Frame 6 5/8" Super Kit Wood Frames.....	\$38.95
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Additional Links and Emails

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www.ABFnet.org

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