

North Carolina Bee Buzz



Official Newsletter of the North Carolina State Beekeepers Association Volume 38, Number 1 Spring 2013

The President's Message Danny Jaynes



From Your President...














H a p p y N e w
Y e a r!! My wish
for each member
is to make this
year the best for
their chapter and
the NCSBA.

You have an outstanding Executive Committee that continues to work hard for improvements. They have been working for some time to upgrade our administrative data and Web Page . By the time you receive this *NC Bee Buzz*, you will notice that our web page is up and running and the AMS has been implemented.

You will notice that each chapter has a mini-website. Those that already have a website can link over to their larger site or remain

with their old website. Our Membership
(continued page 2, see Secretary)

Look Inside!

-  Busy Fall for 5 County Beekeepers (page 14)
-  Cooking It Right With Honey (page 25)
-  Directions to Spring Meeting (page 24)
-  Discover the World of Beekeeping (page 6)
-  EAS 2013 (page 4)
-  Mover and Shakers of Beekeepers Chapters (page 26)
-  SCBA/NCSBA Advance Registration Form (page 22)
-  SCBA/NCSBA Spring Meeting Schedule (page 20)
-  Second Year Beekeepers Win... (page 13)
-  The Great Charlotte Bee Venture (page 16)
-  The Pros and Cons of Live and Let Diet (page 8)
-  Troxler Encourages Farmer to Take Part in 2012 Census (page 31)
-  2013 North American Beekeeping Conference & Trade Show (page 12)

North Carolina
State Beekeepers Association
329 Laurel Street
Mount Airy NC 27030-2911

North Carolina State Beekeepers Association

The mission of NCSBA is to advance beekeeping in North Carolina through improved communication with members, improved education about beekeeping, and support of science enhancing the knowledge of beekeeping.

President: Danny Jaynes
1st Vice President: Julian Wooten
2nd Vice President: Ed Hunt
Secretary: Libby Mack
Treasurer: Wade Lucas
Membership Secretary: Carl Caudle
Education Coordinator: Dr. David R. Tarpy



Regional Directors

Mountain Region:
Senior: Steve Langefeld
Junior: Calvin Robinson
Sophomore: Kermit Holhouser
Freshman: Allen Blanton

Piedmont Region
Senior: Gregory Fariss
Junior: Hugh Madison
Sophomore: Todd Warner
Freshman: Tim Hoffman

Coastal Region
Senior: Tia Douglass
Junior: Rick Coor
Sophomore: Linwood Potter
Freshman: David Bridgers

Contact information for the NCSBA Officers and Regional Directors can be found in your Yellow Book Directory and on the NCSBA website, www.ncbeekeepers.org.

From the *Bee Buzz* Editors:

We enthusiastically accept article contributions. Tell us about your local association's latest events, your latest successes/failures, or anything else you'd like the NCSBA members to know. If your submission is not printed immediately, please do not resubmit the same article. We save all submissions and will print when appropriate or when space permits. We maintain the right not to print articles that we deem inflammatory or otherwise inappropriate.

Submit your article in **.doc, .odt or .pages format**. Photos should be high quality **jpg or tiff format**. Please include a caption for photos, but do not imbed captions in your photos. **We can not accept pdf files**. If you do not have access to a computer, we will accept typed or clearly handwritten articles. You can reach us here:

NCBeeBuzz@PeacefulValleyHoney.com

or

North Carolina Bee Buzz
Gregory and Susan Fariss
142 Cemetery Road,
Mocksville, NC 27028

(Secretary, continued from page 1)
Secretary/Webmaster, Carl Caudle will provide information and training guidelines. It is important that each NCSBA chapter appoint someone to be trained on the use of these long awaited programs. Thanks for your patience and understanding.

January 11, 2013, North Carolina State Beekeepers will have celebrated their

96th Anniversary. We have grown from a small group of dedicated Beekeepers to over 3000 active members. Let's keep the number growing.

NCSBA will have honey sales again at the NC State Fair for 2013. Plan now to sell honey to NCSBA for this important project. As in the past each

NCSBA member in good standing can sell up to 120 pounds.

There will be three collecting points for you to deliver your 2013 honey to be weighed, bottled and labeled. The project manager for this year will post the 2013 guidelines in the next issue of the *NC Bee Buzz*.

The 2013, NC/SC joint spring meeting will be held in Rock Hill, SC, March 1 & 2. More information can be found on line at the South Carolina Beekeepers Association site at <http://www.scstatebeekeepers.org> NCSBA's Summer Meeting will be held July 11-13, 2013 at Sandhills Community College, in the Southern Pines- (continued page 4, see Pinehurst)

NC BEE BUZZ and NC eBUZZ DEADLINES ANNOUNCED!

You asked for it, now here it is!

Until further notice, you can count on these deadlines for submissions to the NC Bee Buzz and NC eBuzz:

- January 2
- April 2
- July 20
- October 2

Newsletters will be available approximately five to six weeks after the deadline, as it takes the printer four to six weeks to print and mail them.

Want your newsletter sooner? The eBuzz is on the website the day the paper version goes to the printer!

SCBA/NCSBA SPRING JOINT MEETING

**March 1 & 2, 2013
Hosted by SCBA
Rock Hill, SC**



**The time to Register
is
NOW!**

(Pinehurst, continued from page 3)
Pinehurst-Aberdeen area of Moore County. Plans are being made to have our Spring Meeting March 5-8, 2014 at the Convention Center in Wilmington, NC.

Greg Clements, our MBP committee chairperson, will test those wishing to advance to Journeyman and Master Beekeeper at this spring meeting in Rock Hill, SC. Study guides for each level are posted on NCSBA web page. All Certified level test will be held at the local chapters. To take tests at each level one must be a NCSBA active member. Local chapters will need to coordinate with Greg Clements for Certified test materials (gclements@worldpatents.com).

Safe driving; see you in Rock Hill, SC

EAS 2013

West Chester, Pennsylvania

August 5-9, 2013

Swarm to West Chester University for the 2013 EAS Conference and Short Course hosted by the Pennsylvania State Beekeepers Association.

Located 25 miles west of Philadelphia International airport, EAS 2013 will feature Local, Regional and National Experts giving lectures and workshops, plus a long list of other beekeeping activities.

During the 2013 program we will focus on our relationship with honey bees and how they connect us with the environment and other people. We are planning to engage growers and gardeners, educators, other beekeepers and beekeeping organizations both at home and abroad.

Tom Seeley, Michael Palmer, Dennis vanEngelsdorp, Debbie Delaney, Warren Miller, Mark Winston, plus a long list of Local, Regional and National Experts Highlight EAS 2013

For details, go to <http://www.easternapiculture.org/conferences/eas-2013.html>

Advertisement Schedule for

NC Bee Buzz/eBuzz and Yellow Book

NC Bee Buzz: Full page (four annual issues **of the same ad**) \$400.00

Full page (single issue) \$125.00

Half page (four annual issues **of the same ad**) \$200.00

Half page (single issue) \$62.00

1/4 page (four annual issues **of the same ad**) \$100.00

1/4 page (single issue) \$32.00

Yellow Book: Full page (single issue) \$75.00

Half page (single issue) \$40.00

1/4 page (single issue) \$25.00

Purchase ads by contacting NCSBA Ad Manager Jim Harvey at

jh3d754h@yahoo.com or 336-352-5514.

Submit NC Bee Buzz/eBuzz ads in JPG or TIFF format to Susan Fariss at NCBeeBuzz@PeacefulValleyHoney.com and Yellow Book ads also in

JPG format to Amy Moyle at amymoyle@gmail.com

The NC Bee Buzz/eBuzz is issued four times a year.

Each NC Bee Buzz/eBuzz page is 6 1/2 x 9.

The Yellow Book is issued annually.

Each Yellow Book page is 5 x 7.

DADANT & SONS

- Quality
- Service
- Value

Since 1863

MAILING ADDRESS:
P.O. Box 1219
CHATHAM, VA 24531

*Your one-stop shopping center
for beekeeping supplies.*

820 Tightsqueeze industrial Rd., Chatham, VA 24531

Ph. (434) 432-8461 • Fax (434) 432-8463

Toll Free Order Number 1-800-220-8325

www.dadant.com

- Brood Builder — Patties, 5 Lb. Bag & 40 Lb. Bag
- Woodenware — Hives
- Extracting Equipment
- Protective Clothing
- Bee Medications



- Mite Treatments — Apiguard; Mite-Away II
- Honey Containers
- Honey Handling Products
- Plastic Frames & Foundation



- Smokers
- Hand Tools
- Beeswax Foundation
- Books; American Bee Journal



DISCOVER THE WORLD OF BEEKEEPING

(And Now for Something Completely Different)

by Ann W. Harman

It's time to change your vacation plans for 2013. Why? Well you have an opportunity to mingle with thousands of beekeepers from all over the world.

Where? You can attend the 2013 Congress of Apimondia being held from September 29 through October 4, 2013. This time it will be in Kiev, the capital city of Ukraine.

Beekeeping in Ukraine has a very long history. In fact you can see this when you visit the beekeeping museum. It is such fun to see tree trunks carved into beehives.

The hives represent people and a few animals, too. You will also see ancient hives and their progression to very fanciful ones from the 1800s. I have been to the museum several times and enjoyed my visits very much.

Kiev is a beautiful, historic and vibrant city. I enjoyed walking through the older part of town. I call Kiev the "birthday cake" city



because many of the older buildings are painted pink or blue or green with fanciful white trim.

The old, famous church of St. Sophia is breathtaking. Huge and lavishly decorated, it is part of your city tour. When you visit the Lavra, the monastery, you will be shown the beehives there and discuss beekeeping through the ages at this World Heritage site.

Kiev has many cafes and good restaurants; Ukrainian food is delicious. However, you will find other restaurants, too, such as Italian, Chinese, etc.

At the Congress you have choices of presentations. The days' programs will be divided into topics, such as bee health, parasites and diseases, bee biology, apitherapy, and others. The presenters, many of them world famous, come from around the world.



Not to worry, the official language of the Congress is English! So you can study the program and pick topics you find interesting. You are sure to be busy all day.

The trade show is huge! You will want to spend quite a bit of time visiting the vendors and their equipment displays. The vendors also come from all parts of the world. Where else can you have a taste of honey from Hungary, see hive tools from Italy, look inside extractors from France, and puzzle over unique hives designed by inventive beekeepers?

Included in the program are Technical Tours. You will be able to visit apiaries where Ukrainian beekeepers will welcome you. You will be able to see their bees (they are nice and gentle) and see honey production methods and queen rearing. In addition, some of the tours will include famous sites in and near the city.

Contests are another part of the Congress. You can certainly enter honey, photography, and books, among other items. This year some of the contests are specifically for children to enter. Who knows; you might come home with a ribbon.

Apimondia Congresses are held every two years. One reason you might want to consider Ukraine is that in 2015 the Congress will be held in South Korea, quite a longer distance away.

Here is where you can find out all the current information (updated frequently): apimondia2013.org.ua/en/ That is the Congress website in English. You can also find out more about the Apimondia organization itself at: Apimondia.com/en

Make your plans now! I'll see you there.

In addition I am happy to answer questions about Apimondia (I have attended a number of Congresses) and Ukraine (I have worked with beekeepers all around the country).

Dear Wade:

Please apply the enclosed donation of \$_____ to the **NCSBA Apicultural Science Fund** to be used by Dr. David Tarpy and Don Hopkins, at their discretion, in support of their efforts on behalf of NC beekeepers.



Mail your check payable to the NCSBA and mail it to:

Wade Lucas, NCSBA Treasurer
2425 Trellis Court
Raleigh, NC 27616



THE PROS AND CONS OF LIVE AND LET DIE

by Dr. David Tarpy



For all you fans of James Bond out there, you can relate to the following analogy of equating various honey bee pests with Bond villains.

- Auric Goldfinger has to be American foulbrood, one of the original and most memorable diseases who really helped launch our respective State Apiary programs just like Goldfinger defined the Bond villain in the then-fledgling Bond franchise.
- Mr. White is IAPV (Israeli Acute Paralysis Virus), linked by some to Colony Collapse Disorder: relatively new on the scene, mysterious, and hard to pin down.
- Emilio Largo from *Thunderball* reminds me of chalkbrood, with the white hair and black eye patch not unlike those spore-ridden mummies that pesky fungus create, but

otherwise harmless (without stealing an atomic bomb, at least).

- Rosa Klebb, the Russian arch-villain, is about as harmless as sacbrood; compared to the others, a poison-tipped blade in a shoe isn't really all that scary anymore.
- Dr. No from the very first *Bond* film of the same name was a Chinese nuclear physicist aimed at holding the West for ransom, just like wax moths were the first notorious pest of beekeepers but have lost their notoriety in light of newer diseases.
- Elliot Carver, the media mogul modeled after Rupert Murdoch, created fictitious military conflicts to sell newspapers. He is clearly analogous to tracheal mites (internal, blood-sucking parasites—need I say more?!).
- Janus, the double-agent from *GoldenEye* is named after the two-faced Roman god, is just like *Nosema* disease with its two forms *Nosema apis* and the newer *N. ceranae*.

While each posed their own problem for James Bond and MI-6, none live up to the notorious Ernst Stavro Blofeld—the bald, scarred, cat-petting super-villain that keeps

popping up from movie to movie and served as Bond's great nemesis. Just as he was "Number 1" in SPECTRE (**SP**ecial **E**xecutive for **C**ounter-intelligence, **T**errorism, **R**evenge and **E**xortion), Blofeld quite obviously represents public enemy #1 to beekeepers, which of course is the varroa mite: ubiquitous, insidious, and devastating.

To take the analogy just a little bit further, Blofeld's character was summarily dispatched in the opening scene of Roger Moore's debut *Live and Let Die* (and hence the demise of SPECTRE from the film franchise). Some beekeepers and apiculture scientists have argued that the same approach is the best answer to finally defeating varroa mites.

The "live and let die" approach to varroa control is based on the premise to allow

natural selection to take its course—impose the (extremely high) parasite selection pressure on honey bees. Let the "weak" die out so that only the "strong" will survive and leave us with resistant bees.

There have been several studies that have used this approach in an effort to breed bees tolerant or even outright resistant to varroa. These studies have shown that it is possible for bees to be able to co-exist with mites without the need of beekeeper intervention (particularly with chemical controls). In doing so, there is a raging debate as to the means by which this new harmonious balance is reached: by fostering resistance among the bees, or by avirulence among the mites.

The answer? Both. Evidence on the (continued on page 10, see "resistance")



Bond villains, from <http://www.adamtglass.com>.

(“resistance”, continued from page 9)

“resistance” side, a research team in Europe let an isolated population in Sweden of honey bees go unmanaged for 7 years. They called it the “Bond Project”, since they were letting them *Live and Let Die* (and no, I’m not making that up). This population survived varroa-mite parasitism without chemical treatment, letting those that succumbed die and those that lived reproduce.

The researchers then produced queens from these ‘Bond colonies’, placed them into standard commercial hives, and compared them with those headed by queens from Control colonies (main-land hives regularly treated for varroa using standard chemical applications). Not only were the mite levels lower in the Bond colonies compared to controls, subsequent genomic studies showed that there were indeed genetic differences between the two bee populations, showing that selection really did change the host bees towards being more tolerant of mites.

For evidence on the “avirulence” side, Tom Seeley at Cornell University discovered a population of feral honey bees, all infested with varroa mites, living in an isolated nature preserve in upstate New York. He measured mite levels in the hives using sticky boards over the course of the summer and showed that the number of mites remained relatively low over time (maximum mite drop of 21 mites in 24 hours, well below the suggested threshold for being a problem for the bees).

He then raised new queens from one of the captured feral colonies, let them mate in the forest, transferred them back to his research station, and placed them along side an equal number of hives headed by commercially produced queens. He then measured each of the six pairs of ‘Arnot Forest’ hives and ‘New Carniolan’ hives for mite levels every month, again using sticky boards. He showed that mite levels increased over the course of the summer, and they did so similarly in both types of colonies in each pair. These results suggest that the feral bees were not resistant to the mites in some way, but rather that the mites are more virulent in a managed setting compared to a feral setting.

So these studies show that it is indeed possible to reach a new balance with varroa mites by letting bees “live and let die”. However, such an approach will **ONLY** work under certain conditions.

First, the honey bee population needs to be isolated. Selection only works in closed populations so that the favorable alleles have a chance to increase in frequency. So if you take a live-and-let-die approach but then buy new packages from out-of-state to replenish your colonies every year, you will never make any progress and your bees (and mites) will never be selected for resistance (and avirulence).

Second, a closed population has to be sufficiently large to start out with sufficient (Continued on page 12, see genetic)

Treat for Varroa Mites
the Safe & Natural Way

Mite Away Quick Strips

- *biodegradable
- *easy to use
- *only need one application
- *can apply with honey supers on



millerbeesupply.com
888-848-5184
orders@millerbeesupply.com



Manufacturer Of Quality
Beekeeping Supplies Since 1978

(genetic, continued from page 10)

genetic diversity and allow genetic change while avoiding inbreeding. Population genetic studies have shown that this requires at least 50 colonies or more to make this possible.

Third, survival is a very general trait; that is, many other factors influence whether or not a colony dies (e.g., nutrition, other diseases, etc...). Thus the rate of selection for varroa tolerance is much increased by measuring the trait in question (varroa mites). So you will never make a lot of progress by letting bees live and let die if you don't routinely measure the mite levels in your colonies.

While it is just prior to the new year as I write this article, I predict that this spring will likely see an unusually high level of winter mortality among honey bee colonies. In some ways, this can be predicted by the long-term cycle that beekeepers have experienced over the past year. The previous winter was one of the mildest on record, meaning that the broodless period was shorter than normal or non-existent. This resulted in varroa mites getting a head start in building up their populations, so that they were higher than normal by the end of the season. For beekeepers who did not measure their mite levels or took no action to control their numbers last fall, the long-lived "winter bees" that overwinter in the cluster were unusually parasitized and thus much weaker physiologically than required to survive until the next spring. As such, I predict that there will be many more reports of "colony

collapse," particularly among beekeepers who "live and let die" but do not account for a closed population or routine mite monitoring.

If the Bond villains teach us anything, it is that the criminal mind comes in many forms. But unlike Bond's ability to eventually overcome the seemingly impossible odds, there is no simple or magical solution. So if you do subscribe to a live-and-let-die approach to beekeeping, this inherently assumes that you keep your population closed and isolated, have a sufficiently large number of colonies (>50 hives), and routinely monitor your mite levels. To do otherwise is to simply allow the SPECTRE of varroa to persist.

David R. Tarpy, NC State Extension Apiculturist, Department of Entomology, NC State University

<http://entomology.ncsu.edu/apiculture>

2013 NORTH AMERICAN BEEKEEPING CONFERENCE & TRADE SHOW

By the time this goes to press, the 2013 North American Beekeeping Conference & Trade show will have been held in Hershey, Pennsylvania at the Hershey® Lodge, January 8-12, 2013. This conference boasts that it brings the most up-to-date information within the beekeeping industry and the latest products and services offered by their many exhibitors and sponsors.

The 2013 conference is a very special one because the American Beekeeping Federation will be celebrating its 70th anniversary! Your ABF delegates have plans to bring you as much information as they can muster. Stay tuned...or for immediate information about the lineup, go to <http://www.nabeekeepingconference.com>

SECOND YEAR BEEKEEPERS WIN INAUGURAL MECKLENBURG HONEY TASTING COMPETITION



1st place, Gretchen Caldwell and Judy Hall

Judy Hall and Gretchen Caldwell went to the Hummingbird Festival at Reedy Creek Park in 2009. When they saw the beekeepers table, they both exclaimed “I’ve always wanted to keep honeybees!”.

So they signed up for bee school in January 2010. Their first bees were a “rescued” colony, which didn’t survive long. Undaunted, Judy and Gretchen attended bee school again in January 2011.

Then, they purchased a box of bees with a queen. Unfortunately, that colony flew away after a few weeks. Fortunately, they had also reserved a nuke through the Mecklenburg Beekeepers Association.

That nuke thrived and grew. It was spit in the spring of 2012. In late May they harvested one super, 30 lbs of honey, with the help of their mentors Leslie and Ken Carlson.

Nine quarts of honey isn’t much to share with the friends and family of two beekeepers. But Judy and Gretchen divided the honey into lots of little jars! They saved enough of it to enter Mecklenburg County Beekeepers’ first annual honey tasting contest November 15, and happily took the first place ribbon.

Their bees live behind Judy’s house in Mint Hill, where they have a big field to fly through. The area has a variety of nectars. Some of them are tulip poplar and red maple, flower and vegetable gardens, wild blackberries and fruit trees, and goldenrod and asters in the fall. They are thankful to their bees for knowing what to do, even when Judy and Gretchen aren’t so sure!

Editor’s note: Reprinted with permission from the Ommatidia, The monthly newsletter of the Mecklenburg County Beekeepers Association.



2nd place, Charles Stewart



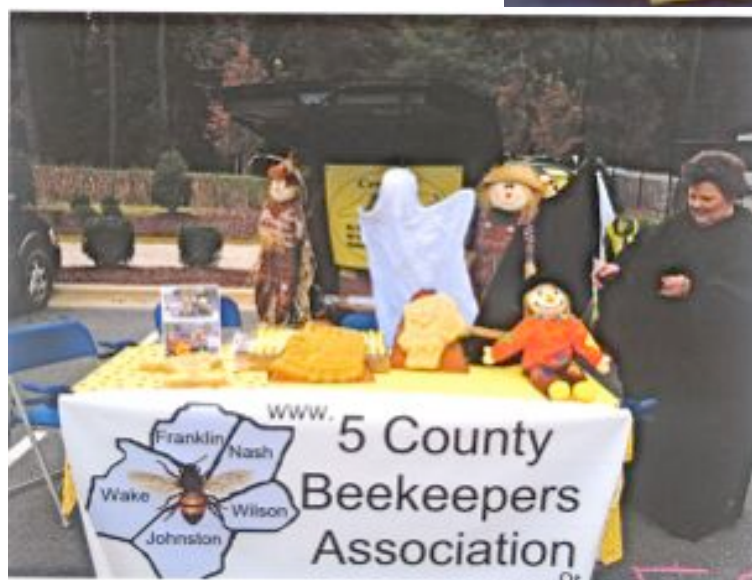
3rd place, Robert Wilson

BUSY FALL FOR 5 COUNTY BEEKEEPERS

by Tim Huffman

It was a busy fall for 5 County Beekeepers. October 6, Wendell, NC welcomed Autumn with its 85th annual Harvest Festival. It is a two day event, celebrated with music, crafts, vendors, a parade and more and 5 County Beekeepers were in the thick of it.

Members Shannon and Steve



members Jane Strickland and Brandy Hunter took that opportunity to hand out two ounce honey bears - three hundred of them!

And finally, December 2, 5 County Beekeepers were represented in the Zebulon Christmas Parade by the Baxter family again. Please enjoy the photographs that document the fun.

Baxter, along with their daughters, four year old Anna and three year old Ella, took to the 5 County Beekeepers float which was pulled by a Jeep Cherokee that was transformed into a honey bee.

Next, The town of Zebulon invited the 5 County Beekeepers to participate in their Trunk or Treat Event, October 26. Costumed





THE GREAT CHARLOTTE BEE VENTURE

by Susan Fariss

Kathy Moschel is no ordinary teacher. She has a BA in psychology, a doctor of law degree, her teaching certification, and certification to teach academically gifted students. She taught for five years in the Charlotte Mecklenburg School System, and is in her sixth year at Metrolina Regional Scholars Academy, a K-8 magnet school for highly academically gifted students in Charlotte, NC.

She teaches second grade there and works with the 8th grade class to help prepare them for the NC Bar Association Mock Trial Competition. Soon, these 8th graders will be going on from the regional competition to the state competition.

Kathy Moschel and her second graders spent a quarter of the school year studying insects. In fact, because of the time and effort Ms. Moschel spends teaching students about



Ms. Moschel, Second Grade Students of Metrolina Regional Scholars Academy and Ms. Jones

insects, she was the recipient of the NC Entomological Elementary Teacher of the Year Award two years ago, given by the NC Entomological Society to teachers (K-12), who use insects in creative ways in the classroom.

But this story isn't really about Ms. Moschel, as extraordinary as she is. This story is about her students. As Ms. Moschel's second graders studied the honey bees, they became concerned about Colony Collapse Disorder. Since the students also study entrepreneurship, *they* decided, at a class meeting, to raise money to help the bees.

As the second graders tell it, the "Bee Venture Business" was done to save the honey bees. As they pondered what they could do to save the honey bees, a plan arose. With the help of Ms. Moschel and Ms. Jones, her assistant, they wrote a business plan. They had decided to make "bee" hair-clips, bee friendship bracelets, bee ornaments, and bee bookmarks, all for \$1.00 each.

The young students launched an advertising campaign, which included making posters and putting them up in the school, and visiting each classroom in the school to explain why the bees are so important to our world. Their slogan? "Save the world for a buck!"

The students then made the items, and sold them at lunch time over a period of several days. They worked very hard at this.

These industrious students also wrote a sample letter to a loan officer explaining why the bank should lend them money for their venture. They evaluated the production process, and then, they evaluated the entire venture.

During this time, an entrepreneur guest speaker visited and a beekeeper. Finally, the second grade students visited a small business.

Ms. Moschel says that the students are very proud of their efforts and they are learning that they are responsible for our world and that what they do *does* matter.

Ms. Moschel, Ms. Jones and the students have chosen to donate this money to Foundation for Honey Bee Research. I know that the Eastern Apicultural Society will be grateful to the teachers and students for the hard work, successful venture and for being chosen to receive the fruits of their labor.

How much money did the students raise? \$420.00. Extraordinary people do extraordinary things. These second graders are truly extraordinary people. Never doubt the wee ones - dynamite comes in small packages. Congratulations on your success, Metrolina Regional Scholars Academy second graders, and many thanks.

Workin' hard for the honey!!

Sure, you work hard every day — but this little guy works harder! Make it easy on both of you with quality

equipment from the Walter T. Kelley Co.

From brood boxes through extractors and jars, the Kelley Co. has exactly what you need for your honeybees to be successful at what they

do best — making honey!



809 W. Main St. • PO Box 240 • Clarkston, NY 14272

800-233-2899

www.kelleybees.com

Silver Spoon Apiaries



*Nucs • Packages • Queens
Beekeeping Equipment & Supplies*



Now taking orders for 2013 nucs

Owned & Operated by:

Barry & Jill Harris and Family

P.O. Box 4486 • Wilmington, NC 28406

910-352-7868 • email: gldeagle@bellsouth.net

2013 SCBA/NCSBA SPRING MEETING SCHEDULE

Friday, March 1, 2013

- 12:00 Noon Meeting Registration – Baxter Hood Convention Center Lobby
Late Registration Fee - \$10 Extra Individual and Family
Exhibitor Setup - Baxter Hood Convention Center Lobby
- 2:00 Invocation – Jimmy Powell, York County Beekeepers Assoc. Chaplain
“Welcome to Rock Hill and Legislative Update” – State Senator Wes Hayes,
District 15
- 2:20 Announcements and Introductions - Mike Hood, Extension Apiculturist,
Clemson University.
- 2:30 Presidents’ Comments – Eck Miller (SCBA) and Danny Jaynes (NCSBA)
- 2:45 “Monsanto’s Commitment to Honey Bee Health” Jerry Hayes, Monsanto,
St. Louis, Missouri
- 3:15 BREAK
- 3:40 Door Prizes
- 3:45 “Enhancing Genetic Diversity in the US Honey Bee Gene Pool” Sue Cobey,
Washington State University
- 4:15 “Honey Bee Research at the University of Florida” Jamie Ellis, Univ. of Florida-
Gainesville
- 4:45 Panel Discussion, (questions from the audience)
Panelists: David Tarpy, Sue Cobey, Jerry Hayes, Jamie Ellis
- 6:00 Adjourn
- 7:00 Banquet - Baxter Hood Convention Center - Advance Tickets Required (\$18)
--Food
--Henry Nunnery and the “Old Fogies and Friends” country string band
--Keynote Address “Carolina Beekeeping on the South Side” – Mike Hood
- 9:00 Adjourn for Evening

2013 SCBA/NCSBA SPRING MEETING SCHEDULE

Saturday, March 2, 2013

- 8:30 Announcements and Door Prizes
- 8:45 “North Carolina State University Apiculture Research Update”
David Tarpy, Extension/Research Apiculturist, NC State University
- 9:15 “Worker – Drone Interactions & the Influence of Drone Quality On These
Interactions” Stanley Schneider, Professor, Department of Biology,
University of North Carolina, Charlotte, NC
- 9:45 Break - Visit Exhibitors
- 10:10 Door Prizes
- 10:15 “The New World Carniolan Program, In Its 31st Generation” Sue Cobey
- 10:45 “Impacts of Pesticides on Honey Bees” Jamie Ellis
- 11:15 “Stump the Professor,” Jerry Hayes (questions from the audience)
- 11:45 Announcements and Introduction to Workshops
- 12:00 State Associations Meet Separately for Business
- 12:45 **LUNCH on your own**
- 2:00 45 Minute Concurrent Workshops (All sessions will begin at 2:00, 3:00 and 4:00)
1. “How to Use the BEES Network in Your School” David Tarpy
 2. “Recognition and Treatment of Bee Diseases” Bart Smith, Entomologist,
USDA/ARS Bee Lab, Beltsville, MD
 3. “What You Need to Know about Africanized Honey Bees” Jamie Ellis
 4. “Rearing High Quality Queens” Sue Cobey
 5. “Value of Pesticides and Their Proper Use in Beekeeping” Jerry Hayes
 6. “Small Hive Beetle Management” Mike Hood
- 5:00 **End - Have a Safe Trip Home !**

SOUTH CAROLINA NEWS

SC/NC JOINT SPRING MEETING

by Dr. Mike Hood

The South Carolina Beekeepers Association will host a joint meeting with the North Carolina State Beekeepers Association on 1-2, March 2013, at the Baxter Hood Convention Center, York Technical College, Rock Hill, South Carolina. You will find included in this newsletter a meeting program. The Baxter Hood Convention Center is conveniently located near I-77. This will be a very informative meeting and we hope to have a good turnout of South Carolina beekeepers to welcome our many beekeeping friends from the Tarhill State.

You will note on the tentative program that we have some outstanding speakers scheduled for the meeting. These include Jerry Hayes, Monsanto, St. Louis, Missouri; David Tarpy, N.C. State University; Sue Cobey, Washington State University; Bart Smith, USDA/ARS Beltsville, Maryland Bee Lab; Stanley Schneider, UNC-Charlotte; Jamie Ellis, Univ. of Florida, Gainesville; and Mike Hood, Clemson University, Clemson, SC.

You will need to preregister for this meeting. To do so, go to our South Carolina Beekeepers website, scstatebeekeepers.org, to register by PayPal by **20, February 2013**. You may also use the mail-in pre-registration form included in this newsletter.

The meeting program on Friday evening will include a delicious meal which will be catered by Jackson's Restaurant, Clover, SC. Henry Nunnery and the "Old Fogies and

Friends" country string band will perform during the meal and the dinner will be followed by our keynote speaker, Mike Hood. We must have an accurate headcount for the meal so you will need to pay in advance with your registration fee. There will be a **\$10 extra** registration fee for beekeepers who show up at the meeting and have not preregistered.

Make your own hotel reservations by contacting the hotel of your choice. The conference center is located about two miles from several hotels including: the Baymont Inn & Suites, rate: \$79, breakfast included (803-329-1330), Wingate by Wyndham Inn, rate: \$89, breakfast included (803-324-9000), and the Hampton Inn, rate: \$104, breakfast included (803-325-1100). It is highly recommended that you make your hotel reservations soon because there are other events going on in the Rock Hill area that weekend.

Other hotels in the area include: Holiday Inn, rate \$99, breakfast not included (803-323-1900), Microtel Inn & Suites, rate \$98, breakfast not included (803-817-7700) and Towns Place Suites by Marriott, rate \$109, breakfast included (ph. 803-327-0700).

Don't delay; make plans today to attend this exciting meeting!

Editor's Note: As you may know, Mike Hood will retire from Clemson University on March 31, 2013. Hood commented, "It has been my pleasure over the past 24 years to provide you beekeeping news on the local and national levels." He also expressed a hardy, "Thanks for your support over the years."

Directions



From Charlotte, NC

- Take I-77 south to exit 79 (Dave Lyle Boulevard)
- Turn right on Dave Lyle Boulevard
- 3rd traffic light turn left on Hood Center Drive
- At STOP sign, cross road into Baxter Hood parking lot.

From Columbia, SC

- Take I-77 north to exit 79 (Dave Lyle Boulevard)
- Turn left on Dave Lyle Boulevard
- 4th traffic light turn left on Hood Center Drive
- At STOP sign, cross road into Baxter Hood parking lot.

Baxter M. Hood Center
York Technical College
 452 S. Anderson Road
 Rock Hill, SC 29730
 803.981.7100
 FAX 803.325.2869

www.hoodcenter.com

EMAIL hoodcenter@yorktech.com

COOKING IT RIGHT WITH HONEY

by Mary Jaynes



During Christmas this year I received a newly published honey cookbook,

Cooking with Honey: Recipes from Romancing the Bee. Deborah DeLong, author of this book, is an expert guide to incorporating honey into your cooking. Her book is a collection of some of her favorite recipes. Here is one of her recipes you might want to try.

Honey Cheesecake Squares

All cheesecakes should be made with honey!

- 6 graham crackers (4 $\frac{3}{4}$ by 2 $\frac{1}{2}$ – inch)
- 2 $\frac{1}{2}$ tablespoons sugar
- 3 tablespoons unsalted butter, melted
- 8 oz. cream cheese, softened
- 1 large egg
- 2 tablespoons of milk
- 2 teaspoons finely graded fresh lemon zest
- 1 tablespoon fresh lemon juice
- $\frac{1}{4}$ cup mild honey

Preheat oven to 325 degrees F. Crumble graham crackers into a food processor, then finely grind with sugar and a pinch of salt.

Add butter with motor running, then press mixture evenly over bottom of an ungreased 8-inch square baking pan.

Bake in middle of oven 10 minutes, then cool 5 minutes.

Meanwhile, blend cream cheese, egg, milk, zest, and lemon juice in cleaned food processor. Add honey and blend filling well. Pour filling over crust and bake in middle of oven until slightly puffed and set, about 30 minutes.

Cool cheesecake in pan, then chill, covered, until cold, at least 3 hours.

Cut into 1 $\frac{1}{2}$ inch squares. Serve with strawberries dusted with confectioners' sugar. YUMMY!!!!



THE MOVERS AND SHAKERS OF BEEKEEPING CHAPTERS

(It could be YOUR Chapter, too!)

by Janet Peterson, Chairperson

There was crazy elation and many pats on the back at last summer's Banquet in Lumberton for Golden Achievement Awards, where not one but three Chapters submitted outstanding documented progress in membership, beekeeping, camaraderie and educational outreach. Each was awarded an Outstanding Chapter of the Year banner, gift certificates to Brushy Mountain Bee Farm, the \$300 prize from NCSBA, AND a challenge to come up with a project and receive another \$700 to further that momentum of good work. All three met the challenge and here's what they came up with.

Chatham County Beekeepers, under Mort Mahaney's leadership, are using the cost share money to expand their educational capabilities by constructing a portable bee booth that will include a wireless hands-free microphone system to use at the festivals and fairs they participate in each year. They usually have to drive four hours to borrow a screened in enclosure

This audio equipment will also be used for the field days at the Chatham County Community College, where they maintain 5 hives. Member volunteers are building the booth from lumber and screening. Members participating in these events will be accumulating credits toward the Master Beekeeper Program.

Orange County Beekeepers, under Todd Walker's leadership, are eager to use the money to sponsor two 4H students, providing them with two complete hives each. The membership will provide training and support throughout the year. Their mission is to encourage more young people to take up beekeeping.

Crystal Coast Beekeepers, under Heather Lawson's leadership, would like to purchase extraction equipment, DVDs, literature on extraction and information about the NC Honey Standard. This helps fulfill their goal of encouraging mentorship. "New-bees" will be given education on disease, hive inspections, education on

the use of the equipment and advice on how to adhere to the NC Honey Standard.

It's Not Too Late!

For the 2012-2013 award cycle, we hope your chapter has been keeping a record of your meetings and outreach since January 2012. The Entry Form, Guidelines, and more information can be found at www.ncbeekeepers.org on the Member's Page. It is due at the Spring NCSBA Meeting.

See any member of the GAP committee for questions:

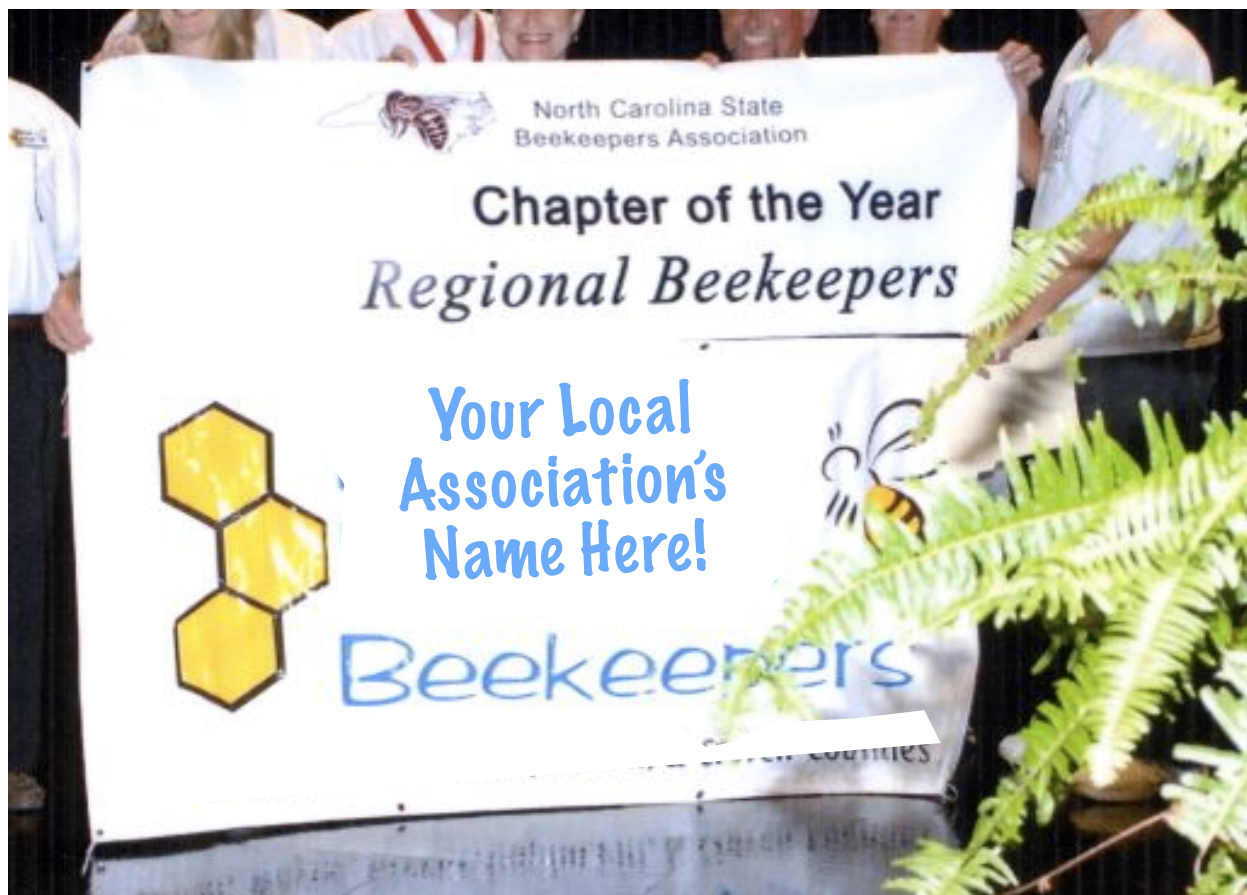
Janet Peterson Chairperson,
828-628-1758 Buncombe County
janetpeterson9@bellsouth.net

Mark McCarter, 704-485-8148
Stanley County markm@vnet.net

Martha Ramsey 919-365-3584 Coastal
Plains mbramsey@bellsouth.net

Mack Jones 919-222-2077 Neuse
Regional mackvjones@hotmail.com

Joe Baker 919-920-0072 Johnston
County jbaker3538@aol.com



*Beekeeping
It's a way of life!*

Italian Queens & Package Bees

We raise our own queens on site in our own bee yards. They are the finest Italian Queens in the industry and known to be great producers.

"Long-Life" Cypress Woodware

We manufacture our own wooden beekeeping products, made from Cypress wood. Cypress is known to be a long lasting, rot-resistant wood with a very long life. Give your bees the best home possible with Roseman's "Long-Life" cypress hives.

A Full Line of Beekeeping Supplies

Roseman Apiaries is a full service company. We carry a full line of supplies and equipment. If there is an item that you need to care for an existing year bees, we are the company for you. No matter how big or small - beginner or professional, we are here for you!!

- Heavy-duty vacuuming supplies
- LARVAE, EGGS
- Bees, Queens, Nuclei
- Frames, Foundation, etc.
- Medication, Pest Control
- Queen Rearing

*Let us be your
bees' partner!*

**Roseman
Apiaries**



Spring Bank Bee Farm

298 Spring Bank Road, Goldsboro, NC 27534
Rick and Colin Coor

rickydcour@bellsouth.net
919-778-0210

We produce Italian queens from April until September
Package bees available in March, April and May

2012 Permits to Sell Bees

The following dealers have been approved to sell bees in North Carolina and are permitted to sell or ship bees of the said apiary.

In State Companies Permitted to Sell Bees

Company Name	Address	City	State	Zip	Status	Spring Inspection	Phone Number
5 County Beekeepers	117 E Franklin St.	Zebulon	NC	27597	Active	+	(919) 269-9333
7 Stands Bee Farm	1895 Middle Fork Rd	Hays	NC	28635	Active	+	(336) 957-4744 / (336) 884-7768
A & J Honey Farm, LLC	3243 S. Chipley Ford Rd.	Statesville	NC	28625	Active	+	(704) 876-1244
Albemarle Bee Co.	325868 Austin Rd.	New London	NC	28127	Active	+	(704) 403-1233
Bee Delight Honey Farm	510 Flower House Loop	Troutman	NC	28168	Active	+	(704) 450-1703
Beech Mountain	2775 Beech Mountain Rd	Elk Park	NC	28622	Active	+	(828) 733-4525
Bells Bees	2809 Campbell Rd.	Raleigh	NC	27606	Active	+	(919) 859-6734 / (919) 417-1506
Betsy's Bees	1226 Mt. Olivet Church Rd.	Franklin	NC	27525	Active	+	(919) 495-1450
Billy R. Boyd	5803 Old Monroe Rd.	Indian Trail	NC	28079	Active	+	(704) 821-7310
Bolick Honey Farm	2215 Trinity Church Rd.	Concord	NC	28627	Active	+	(704) 795-3900
Bridges Bee Farm	3345-1 Belaire Rd.	Mooreboro	NC	28114	Active	+	(704) 473-9599
Bridges Bee Supplies	121 Parkdale Cir	Kings MTN	NC	28086	Active	+	(704) 739-6435
Brushy Mountain Bee Farm	610 Bethany Church Rd	Moravian Falls	NC	28654	Active	+	(800) 233-7829
Bryan Fisher	712 Dorton St	Kannapolis	NC	28081	Active	+	(800) 521-8642
Busy Bee Apiaries	1201 New Hope Church Rd	Chapel Hill	NC	27516	Active	+	(919) 942-2006
Calvin B. Terry Jr.	165 Johnson Street	Vass	NC	28394	Active	+	(910) 528-1153
Cape Fear Bee	475 Pleasant Grove Church Rd	Bladenboro	NC	28320	Active	+	(910) 879-7685
Carl Chesick, Green Goddess Farm	22 Cedar Hill Road	Ashville	NC	28806	Active	+	(828) 775-7047
Chris Mendenhall	5703 Midway School Rd.	Thomasville	NC	27360	Active	+	(336) 442-9835
David A. Howard	2713 Joiner St	High Point	NC	27263	Active	+	(336) 905-5832
David Bridges	118 Wellington Dr.	Wilmington	NC	28411	Active	+	(910) 686-1947
Delton Dial	11034 Rough and Ready Rd	Cerro Gordo	NC	28430	Active	+	(910) 654-0122
Diamond B Farms	185 Lighthouse RD	Wallace	NC	28466	Active	+	(910) 289-0685 / (910) 340-0826
Donnie Smith	599 John Russell Rd.	Raeford	NC	28376	Active	+	(910) 875-5640
Ed & Ruth Whitley	1247 Salisbury Ave	Albemarle	NC	28001	Active	+	(704) 982-3136
Fourth Creek Honey Farm	232 Antler Rd.	Statesville	NC	28625	Active	+	(704) 595-2004
G&S Beelam	900 Honeyuckle Lane	Albemarle	NC	28001	Active	+	(704) 982-0698
Gerry and Libby Mack	121 Harmlage Rd	Charlotte	NC	28207	Active	+	(704) 358-8075
Gormin Inc.	1945 Davis Mtn Rd.	Hendersonville	NC	28739	Active	+	(828) 693-1966
Guilford County Beekeepers Association	4604 Graham RD	Greensboro	NC	27410	Active	+	(336) 740-1703
H.L. Carpenter II	1940 Bill Curlee Rd	Polkton	NC	28135	Active	+	(704) 272-7154
Harris Apiaries	10055 Hwy 53 West	White Oak	NC	28399	Active	+	(910) 988-6227
Holbert Bee Supply	P.O. Box 217	Saluda	NC	28373	Active	+	(828) 749-2337
Holt's Apiaries	132 Holt's Ln	Sloan	NC	27047	Active	+	(336) 710-4904
Jeff Ritchie	3901 Piney Rd	Morganton	NC	28655	Active	+	(828) 438-1720

Jerry Douglas Routh	4117 Douglas Drive	Franklinville	NC	27248	Active	+	(336) 824-4682 / (336) 653-5516
Jim's Bees	1106 Mohawk Ave	Fayetteville	NC	28303	Active	+	(910) 273-2782
Kathy Webb	308 Webb Farm Rd	Salisbury	NC	28147	Active	+	(704) 637-8043
KT's Orchard & Apiary	195 Pigeon Ford Rd	Canton	NC	28716	Active	+	(828) 279-5614
Lee's Bees	1818 Saddle Club Rd	Mebane	NC	27302	Active	+	(919) 949-6140
McCoy Feed & Farm Supply, Inc.	4420 Hwy 24-27 Hwy East	Midland	NC	28107	Active	+	(704) 888-2296
Mike Bourn	1104 Arbor Drive	China Grove	NC	28023	Active	+	(704) 657-7699 / (704) 506-5390
Miller Bee Supply, Inc.	496 Yellow Banks Rd.	N. Wilkesboro	NC	28659	Active	+	(336) 670-2249
Mott Bee Farms	P.O. Box 301	Harris	NC	28444	Active	+	(910) 990-0448
Mountain Valley Apiaries	212 Mountain Top Road	Thurmond	NC	28683	Active	+	(336) 874-2260
Mr. Buzz	535 Marble St.	Raleigh	NC	27603	Active	+	(919) 368-5217
Orr Bee Supply	323 Morris Hollow Rd.	Old Fort	NC	28762	Active	+	(828) 581-4494
Plank Road Apiary	3350 S. Plank Rd	Sanford	NC	27330	Active	+	(828) 421-2447
Rabbit Creek Bee Company, LLC	260 Corbin Cove Drive	Franklin	NC	28734	Active	+	(704) 607-6207
Ralph Harlan	PO Box 696	Cornelius	NC	28031	Active	+	(910) 843-5561
Rayon Locklear	2880 S. Duffie Rd.	Red Springs	NC	28377	Active	+	(704) 983-1726
Reather C. Furr, Jr	40810 Southbound Rd.	Albemarle	NC	28001	Active	+	(828) 652-3534
Rivis Russian Apiaries	PO Box 2520	Marion	NC	28103	Active	+	(704) 624-5116
Robert E. Blaucom	2518 Hamiltons Cross Rd	Marshville	NC	28025	Active	+	(704) 721-5630
Robert M. Dennis	1040 High Meadows Drive	Concord	NC	28634	Active	+	(704) 539-4757
Ronnie Moose	152 Crater Rd.	Harmony	NC	28406	Active	+	(910) 352-7668
Silver Spoon Apiaries, Inc	P.O. Box 4486	Wilmington	NC	27534	Active	+	(919) 778-0210
Spring Bank Bee Farm	169 Forest Knolls Rd.	Goldboro	NC	28384	Active	+	(910) 895-5801
Sweet Honey Bee Farm	301 Britt Rd	St. Pauls	NC	27107	Active	+	(336) 788-4554
Tate's Apiaries	2241 Union Cross Rd.	Winston-Salem	NC	27278	Active	+	(919) 302-4076
Taylor's Miss Bee Haven	7610 Buckhorn Rd	Hillsborough	NC	27596	Active	+	(919) 728-0627
The Carolina Bee Company	237 Jason Way	Youngsville	NC	28025	Active	+	(704) 791-3015
Todd Eury	1753 Liberty Ridge Rd.	Concord	NC	27229	Active	+	(910) 220-7341
Tony & Shirley Harris	120 Norman Drive	Candler	NC	27370	Active	+	(336) 475-5137
Triad Bee Supply	4062 Evergreen Dr.	Mocksville	NC	27028	Active	+	(336) 492-7564
Triple J Farms	595 Duke Whitaker Rd	Hubert	NC	28539	Active	+	(910) 787-2577
Triple S Bee Farm	3886 Freedom Way	Newton	NC	28658	Active	+	(828) 428-2447
Troy Poovey	3236 Sipe Rd	Denton	NC	27239	Active	+	(336) 659-3695 / (336) 250-9562
Vince Applebee	24300 NC Hwy 8	Wagram	NC	28386	Active	+	(910) 369-2414 / (910) 318-1202
Wagram Apiaries	24560 McGall St.	Charlotte	NC	28215	Active	+	(704) 536-4805
Wayne Hansen	8004 Southway Rd	Durham	NC	27703	Active	+	(919) 730-0505
Wayne Hare	3734 Angler Ave	Eden	NC	27289	Active	+	(336) 635-5821
WG Bee Farm	P.O. Box 4563	Marshall	NC	28753	Active	+	(828) 689-4095
Wild Mountain Apiaries	875 Will Arrington Road						

TROXLER ENCOURAGES N.C. FARMERS TO TAKE PART IN 2012 CENSUS OF AGRICULTURE

RALEIGH — Agriculture Commissioner Steve Troxler is encouraging North Carolina farmers to “speak up” for their livelihood by taking part in the 2012 Census of Agriculture.

Conducted every five years by the U.S. Department of Agriculture’s National Agricultural Statistics Service, the census is a complete count of all U.S. farms, ranches and the people who operate them.

“The census is the only source of uniform, comprehensive agricultural data for every county in North Carolina,” Troxler said. “It’s a chance for farmers to speak up and have some influence on decisions that shape their farms, communities and the industry.”

The census looks at land use and ownership, operator characteristics, production practices, income and expenditures, and other topics. This information is used by all those who serve farmers and rural communities, from federal, state and local governments to agribusinesses and trade associations. Legislators use the data when shaping farm policy, and agribusinesses factor it into their planning efforts.

“By taking part in the census, farmers can help tell the story of agriculture’s importance to North Carolina and its economy,” Troxler said. “It’s a story policy makers need to hear.”

NASS will mail out census forms this month to collect data for the 2012 calendar year. Completed forms are due by Feb. 4. Farmers can fill out the census online using a secure website, www.agcensus.usda.gov, or return their form by mail.

Federal law requires all agricultural producers to participate in the census and requires NASS to keep all individual information confidential.

Reprinted with permission from the NCDA&CS Public Affairs Division, Brian Long, Director

Out of State Companies Permitted to Sell Bees

Company Name	Address	City	State	Zip Code	Status	Health Certification	Phone Number
Bob Binnie	PO Box 15	Lakemont	GA	30552	Active	+	(706) 782-6722
Gardner's Apiaries / Spell Bee LLC	510 Patterson Rd	Baxley	GA	31513	Active	+	(912) 367-9352
Glenn Apiaries	PO Box 2737	Fallbrook	CA	92088	Active	+	(760) 728-3731
H & R Apiaries	2700 South Macon Street Ext	Jesup	GA	31545	Active	+	(912) 427-7311
Hardeman's Apiaries	P.O. Box 214	Mount Vernon	GA	30445	Active	+	(912) 583-2710
JJ's Honey	5748 Chancey Rd	Patterson	GA	31557	Active	+	(912) 647-1564 / (912) 288-0609
Kona Queen Hawaii, Inc.	P.O. Box 768	Captain Cook	HI	96704	Active	+	(808) 328-9016
Rossmann Apiaries, Inc.	3364-A GA Hwy 33	Moultrie	GA	31768	Active	+	(229) 965-7200
Ruter's Apiaries, Inc.	PO Box 394	Hemp Hill	TX	75948	Active	+	(409) 825-1544 / (612) 325-1203
Strachan Apiaries	2522 Tierra Buena RD.	Yuba City	CA	95993	Active	+	(530) 674-3881
Walter T. Kelley Co.	PO Box 240	Clarkson	KY	42726	Active	+	(800) 233-2899

It is unlawful to market queens, packages, nucs or hives before the Permit to Sell Bees in North Carolina has been issued. For North Carolina residents, a permit is not required for: (1) the sales of less than 10 bee hives in a calendar year; (2) a one time going out-of-business sales for less than 50 bee hives, or (3) the renting of bees for pollination purposes or the movement of bees to gather honey.

Information or application forms for the Permit to Sell Bees in North Carolina are available by writing: Attn: Glenn Hackney, NCDA&CS, 1966 Mail Service Center, Raleigh, NC 27699, calling (919) 233-8214, contacting your local county extension office, or accessing the following site:

<http://www.ncagr.gov/plantindustry/plant/apiary/sellbees.htm>

Developed & Perfected by Brushy Mountain



- All Assembled
- Rot resistant Cypress
- 100% Copper Roofing
- 3/8" Plywood Inner Cover
- IPM Bottom Board w/ Monitoring Board
- Glued and Nailed Medium Rabbeted Supers

Why buy a copy when you can have the original?



Brushy Mountain Bee Farm

www.brushymountainbeefarm.com • 1-800-288-7929

• BEST QUALITY • BEST SERVICE • BEST SUPPORT •