

## **Nuc Initiatives in Missouri**

Presented by Cathy Misko

President, Midwestern Beekeeper's Association MBA Nuc Initiative Pilot Program started August 2014 www.midwesternbeekeepers.org

## A Smidgen about Me ?

- Physician's Wife
- Mama of 8
- Practice Sustainable
   Beekeeping 25 years
- Average 20 Colonies
- Midwestern
   Beekeepers Assn.
   President









#### 2007 = \$75.00 2015 = \$115.00 - \$140.00



#### It was time for a **CHANGE!**

- Mo State Beekeeping Conference...Mike
   Palmer from VT
- Raise your own Nucs and Queens from Swarm Cells
- June and July Provide Increase Drone Populations
- I Primarily Started nucs for Swarm Control (However I was unsure of local bee temperaments.)

# Since 2008 I have had less than a 1% Winter Loss

- I Use and Raise Local Stock
- I have Eliminated Prophylactic Chemical/Antibiotic Treatments
- Use Screened Bottom Boards
- Test and Treat Heavily with Powdered Sugar
- Practice Drone Removal

#### Mother and Daughter Queens which Wintered Together



#### Queen Prices \$20 – \$500 and up!

- Shipping: Stress Kills, Postal Delays
- Accidental Death
- Improperly Mated
- Poor Brood Pattern
- Aggressive Temperament
- ?????
- Seems to be an Increase in Spring and Fall Failures

## What is a Nuc?

- An Official Nucleus of a Mature Colony.
- A BALANCED Miniature:10-25 % Population of a Mature 60,000 member Colony.
- Not a Type of Box or Specific Frame Configuration.
- Composed of 2-10 frames in a Small Box or Standard Deep.
- Split = Nuc used for Apiary Increase

## Why Make Nucs?

- Propagate Survival, Adaptive, and Hardy Queens/Genetics
- Attempt "Sustainability" of Apiaries

   \*High Winter, Spring, and Summer Losses
   \*Rising Costs of Queens and Bees
   \*Work with the "Power of Nature" known as
   REPRODUCTION / SWARMING
  - \*Teaching Purposes
  - \*As Mating Nucs/Queen Banks
  - \*Ample Supply of Proven Queens



Official Inspiration: Michael Palmer 2010 (French Hill Apiaries VT)

- Keep Accurate Records
- Breed from the Best
- Splits are Most Productive after FEEDING
- Avoid Smoking when Making Nucs (runs the nurse bees off brood.)

### Basic Nuc Set Up (Varies According to Season)

5 Frame Nuc (Springtime)

- Honey: Uncapped Honey Toward Inside
- Brood
- Brood
- Part Brood plus Food
- Empty Drawn Comb
- Add Caged Queen or Cell

(Avoid shaking down bees or will increase swarming.)

### **Basic Beekeeping Management**

#### 5 Reasons Why We Loose Bees

- 1. Disease and Pests
- 2. Nutrition and Lack of Nutritious Forage
- 3. Chemicals (F,H,P...suicide!)
- 4. Lack of Diverse Genetics



5. Beekeeper Error...get educated/connected!

(A bee-haver verses a "Keeper of the Bees"...they need us educated)

## January

### Mature Colony

#### Feed if Needed

- 1. Emergency Feed until Mid Jan. then Light Syrup (1:1 or 1:2)
- 2. Keep Food in Contact with Cluster
- 3. Clear Entrance of Dead Bees
- 4. Assure Ventilation Holes Open

#### <u>Nuc</u>

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## February

### Mature Colony

- Light syrup (1:2 or 1:1) (1:2 helps dilute honey)
- 1. Pollen Protein comes in with Willows, Maples, Elm, Dandelion
- 2. Snug Honey Stores against Brood if temps warm enough
- 3. Keep Food Stores in Contact with Cluster



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- 2. Snug Honey Stores against Brood if temps warm enough
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# March

### Mature Colony

- 1. Full Inspections-Keep Queens Marked
- 2. Reverse Boxes Locating Brood in Bottom
- 3. Honey Stores Next to and Directly Over Brood
- 4. Cull Empty Old Outside Frames
- 5. Clean Bottom Board/Remove Mouse Guard
- 6. Check for Mites
- 7. Beetle Blasters
- 8. Feed 1:1 if Necessary

Caution: Do not over feed limiting open cells for egg laying

#### <u>Nuc</u>

- 1. Full Inspections-Keep Queens Marked
- 2. Reverse Boxes Locating Brood in Bottom if 2 Tiered
- 3. Honey Stores Next to and Directly Over Brood
- 4. Clean Bottom Board/Remove Mouse Guard
- 5. Check for Mites
- 6. Swarm Management-Assure room
- 7. Beetle Blasters
- 8. Feed 1:1 if Necessary

Caution: Do not over feed limiting open cells for egg laying

## April

#### Keep alert of congestion if feeding...need open cells for eggs

### Mature Colony

- 1. Feed 1:1 *Early* April if Wax Production Needed
- 2. Cease Feed –Place Queen Excluder
- 3. Begin Supering with Drawn Foundation
- 4. Start Queen Production along with Purple eye Drones
- 5. Maintain Beetle Blasters
- 6. Cull Empty Old Outside Frames

### Nuclear Explosion

- 1. Transfer Ready Nucs to Hive Bodies
- 2. Split to Make Spring Nuc with 2 Frames of Brood (*Mindful of your Queen*)
- 3. Beetle Blasters in Place
- 4. Feed 1:1 *Early* April if Wax Production Needed

# May

### Mature Colony

- 1. Swarm Management! Produce Queen Cells
- Keep Congestion down by making more Nucs
   (Do not transfer your queen)
- 3. Cull Empty Old Outside Frames
- 4. Basic Beekeeping Adding New Frames-Easing to the Center Respecting the Brood

- 1. Start Providing Nucs (\$110-\$290)
- 2. Recycle Brood/Food \*Mature but Weak Colonies \*Mating Nucs \*Splits

## June

#### Mature Colony

- 1. Dud Colonies
  - \*Disease Free
  - \*Make 2-5 Nucs
  - \* Add Queen Cells
  - \* Display Ole Queen in a Bug Collection

#### <u>Nuc</u>

Configure Over Wintering Nucs

 Your Queens/Cells
 2-3 Frames Brood
 (NO EGGS/Young Larva)
 Frame of Food
 Mostly Open Drawn Comb

# July

#### Mature Colony

- 1. Test Moisture and EXTRACT Honey
- 2. Return Wet Supers to Refill
- 3. Return Wet Supers over Inner Cover to Clean and then Store
- 4. Share Uncapped Honey with Over Wintering Nucs
- 5. Feed Light Syrup (1:1 or 1:2) if Dearth AND Supers OFF
- 6. Provide Water
- 7. Consider Fall Requeening with Proven Queen
- 8. Powder Sugar Roll Mite Test
- 9. Treat (PS) if Honey Supers Off and on Screened Bottom Board
- 10. Beetle Blasters ON

- 1. Establish more over Wintering Nucs
- 2. Decrease Entrance to Discourage Robbing (All weak Colonies)
- 3. Small Hive Beetle Traps
- 4. Feed Light Syrup (1:1 or 1:2)
- 5. Provide Water
- 6. Provide Mite Testing
- 7. Mite Treatment (PS Dusting if Screened Bottom Boards)

## August

### Mature Colony

- 1. Remove Excluder and Honey Supers
- 2. Feed if Dearth 1:2 Light Syrup
- 3. Winter Bees are in Production
- 4. Check for Requeening Need
- 5. Small Hive Beetle Traps
- 6. Powdered Sugar Dusting if Appropriate
- 7. Provide Water

- 1. Add 2<sup>nd</sup> Box for Food Chamber
- 2. Use Drawn Comb
- 3. Check Mites
- 4. Treat for Mites if Appropriate
- 5. Small Hive Beetle Traps ON
- 6. Reducer ON
- 7. Feed 1:2 Light Syrup
- 8. Provide Water

## September

### Mature Colony

- 1. Continue Feeding until 65 Pounds Stored
- 2. Powder Sugar Dusting if Appropriate
- 3. Mite Testing
- 4. Small Hive Beetle Traps On
- 5. Check for Marked Queen

- 1. Feed until Top Box Full
- 2. Mite Test
- 3. Assure Marked Queen
- 4. Reducer, SHB Trap ON

## October (Early)

### Mature Colony

- 1. Feed Heavy Syrup 2:1
- 2. Brood in Bottom
- 3. Assure Marked Queen
- 4. SHB Trap over Brood/Cluster for Winter

- 1. Feed Heavy Syrup 2:1
- 2. Share Extra Honey from Mature Colonies
- 3. Align Brood in Center
- 4. Assure Marked Queen

## November

### Mature Colony

- 1. Winter Management
  - \*Wind Break \*Proper Upper Ventilation \*Mouse Guards On \*SHB Trap over Cluster
- 2. Feed Heavy Syrup 2:1
- 3. Full Winter Stores by

### Thanksgiving!

Everyone is thankful!



- Winter Management
   \*Wind Break
   \*Proper Upper Ventilation
   \*Mouse Guards On
   \*SHB Trap over Cluster
- 2. Feed Heavy Syrup 2:1
- 3. Full Winter Stores by
  - Thanksgiving!

Everyone is thankful!

## December

### Mature Colony

- Emergency Feed if Needed (Fondant, Candy, Mush etc.)
- 1. Keep Food in Contact with Cluster
- 2. Clear Entrance of Dead Bees
- 3. Assure Ventilation Holes Open



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# Common Mistakes Making a Nuc Fail

"there are lessons in the loosing"

- Queen is Rejected or You Let the Bees Raised Poor Queen
- Split Too Early Before Temps Remained CONSTANTLY Between 50-70 Degrees
- Transferred Too Few Bees to Attend or Keep Brood Warm..."Chilled Brood"
- Nuc Negligence: it Became Over Crowded Allowing the Nuc to <u>SWARM!</u>

## **Emergency Feed**

### Candy Board "Tom O'Neill's Favorite"

(Fills two cookie sheets about a quarter of an inch deep)

5 lbs. white granulated sugar

1 lb. water

1/4 teaspoon cream of tartar

Heat the water and mix in the sugar and tartar. Cover and stir regularly. Bring to "Hard Ball" @ 260 degrees. Let it cool down to about 225 then whip in air which will make it turn white. Careful when you whip in the air, the stuff starts to grow. Line two cookie sheets with wax paper and carefully pour mixture. That's about it. Good luck...Tom Hint: Candy can be poured into paper plates and stored in baggies ready to invert over the needy clusters.

**Sugar Mush** - "Ted Jansen's Mush." In a gallon zip lock bag, pour in 5# of dry sugar, and 1-1/4 cup of water. Mash it around to mix. Place the closed securely zip lock bag over the top bars. Cut a couple of generous slits on top. Place a shim or shallow super to account for the height of the baggy.

### Fondant Candy Recipe #1

Mix: 2 cups water, 5 lbs. cane sugar and 1 tbsp. white vinegar.

Heat to 232F using a candy thermometer.

Cool to 180F-200F and stir briefly until opaque.

Pour into small pie pans or small cereal boxes lined with wax paper.

Let cool before unmolding and store wrapped in wax paper in refrigerator until needed.

### Fondant Candy Recipe #2

- 1. Use 1 part water to 4 parts granulated sugar.
- 2. Add ¼ tsp. vinegar per pound of sugar.
- 3. Bring to boil, stirring constantly until boiling commences.
- 4. Boil without stirring for 3 minutes, covered.
- 5. Insert thermometer and boil uncovered until 234°F is reached
- 6. Remove from heat and allow cooling to 200°F.
- 7. Whip with whisk until whiteness occurs.
- 8. Pour (QUICKLY!) onto waxed paper which has a towel underneath.
- 9. Allow to cool undisturbed.
- 10. Remove waxed paper and store each cake in a plastic bag.

The white cakes can be handled as plates, but are fudgy. The waxed paper is readily removed

before storage. If the towel is fluffy the wax paper depresses limiting the width of the cake

#### Mountain Camp Feeding

The most basic and a way of hardship is to provide raw sugar, the finer the better. Some will spray mist water over it causing the sugar to crust so to prevent the bees from carrying it out as a foreign substance. It can be poured in division board feeders, on top inner covers, or directly on newspaper lined directly over frames. Space (shim) needs to be added to allow bees' access.

Ideally bees should have enough stores before Thanksgiving but if an emergency occurs that they need food or they will starve, then the beekeeper have some options. It is true that bees can be fed too much, crowding space needed for clustering and crowding their gut. As they fill up and can not take cleansing flights due to the weather, their GI tract distends with fecal material contributing to death.

#### For colonies needing fed remember:

1 gallon of syrup = 7 pounds stored reserve

### DEVELOPING A LOCAL STRATEGY FOR NUCS & QUEENS ... a Three Rivers Beekeepers Initiative

By JOHN TIMMONS Three Rivers Beekeepers (2011)

#### Midwestern Beekeepers

Nuc & Queen Initiative Pilot Program

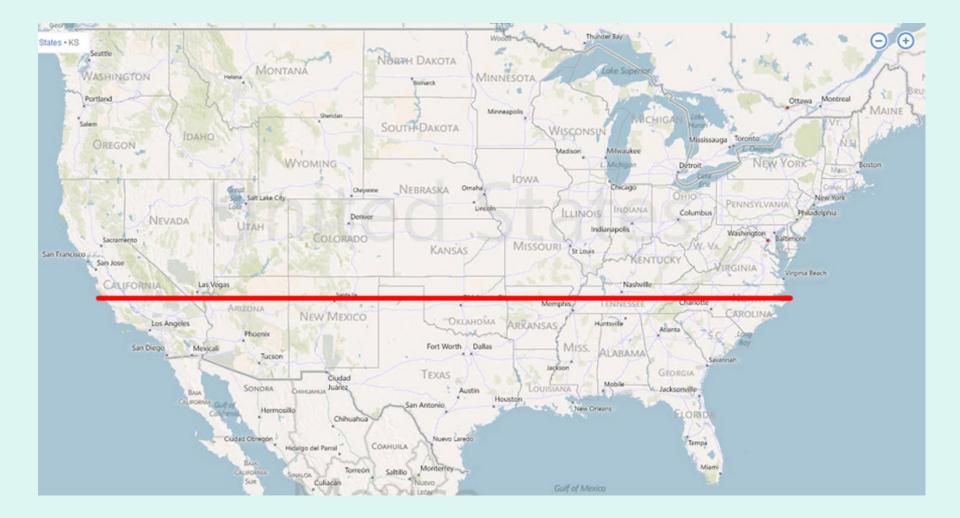
- Our History
- The Old Way of Doing Things ...
- Sustainable vs. Non-Sustainable Beekeeping

#### Midwestern Beekeepers

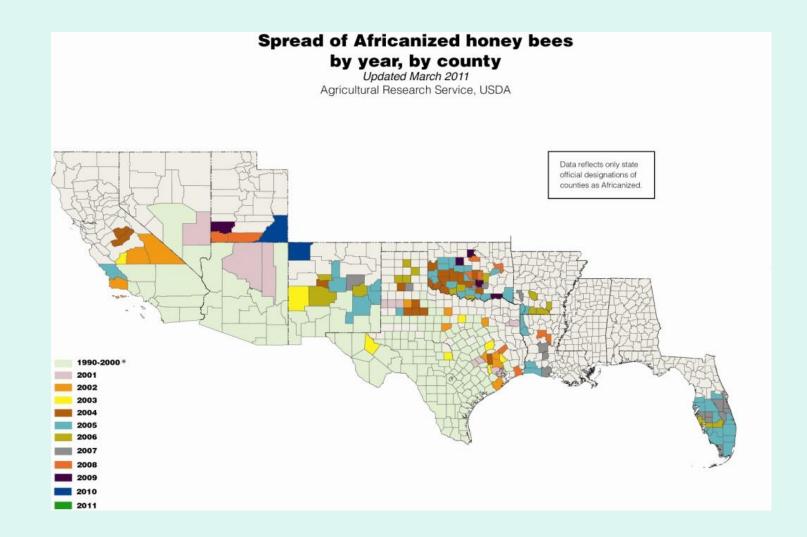
Nuc & Queen Initiative Pilot Program

- Eliminate Dependency on Importation of Southern Nucs & Queens
- Provide Instruction in "Sustainable" Techniques ...
  - Summer Nuc Production
  - Techniques for Over-Wintering Nucs
  - Small-Scale Queen Rearing Techniques
- Facilitate Sales & Distribution of Initiative Nucs & Queens (Pool)
- "Rule of 36"
- Requires Commitment from Initiative Participants for Nucs
- TRB 1<sup>st</sup> Year GOAL ...100 Nucs however 200 were sold!

#### "Rule of 36"



#### AHB in FL, LA, AR, OK, TX, NM, AZ, UT, NV, CA



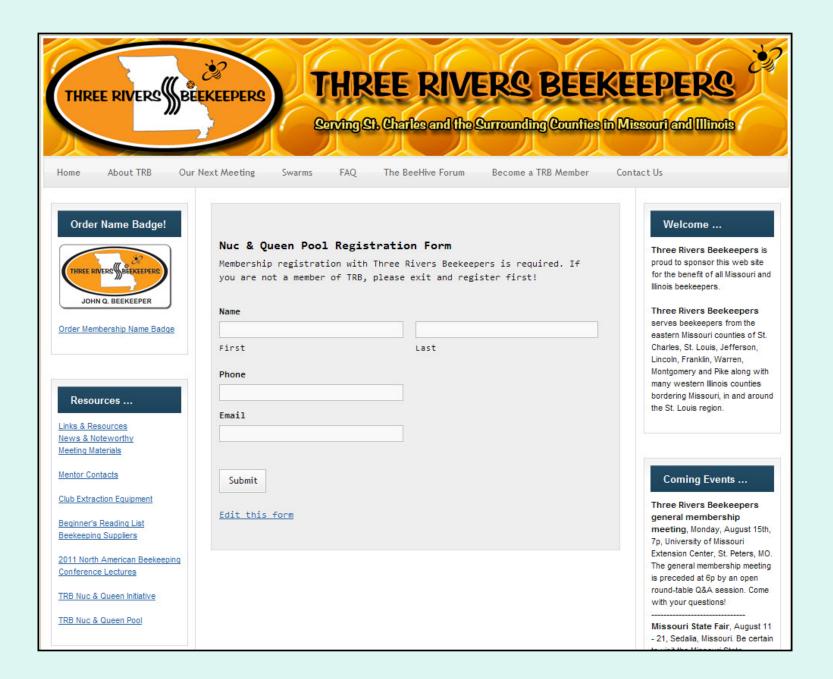
#### Midwestern Beekeepers Nuc & Queen Initiative Guidelines

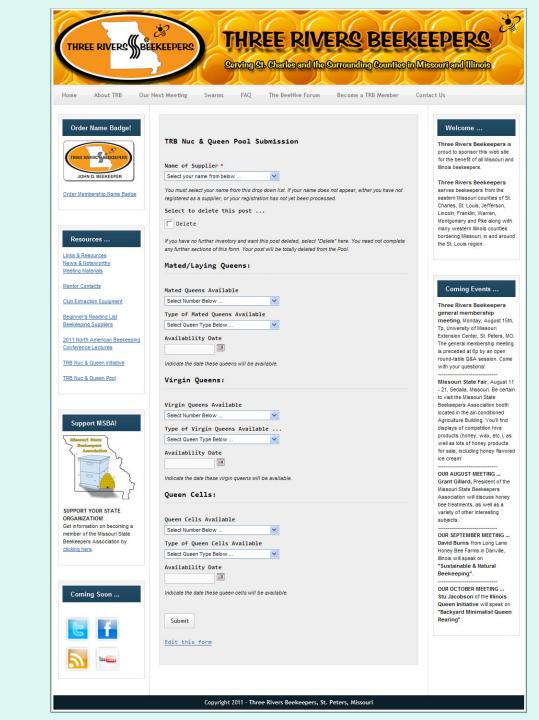
- Local Stock per "Rule of 36" (exceptions for 2015 16 Season)
- 4-frame or 5-frame ... Mediums or Deeps
- Pricing at Discretion of Supplier
- All Sales Revenues Go to Provider
- Sold by Priority
  - MBA Members
  - Open Availability
- New or Like-new Frames
- 2 Frames of Brood Covered w/ Bees (esp. in 4-frame nuc)
- A Frame of Brood will be a Minimum of 75% FULL of Brood on each Side of the Frame.
- Healthy Laying Queen (Origin and/or age noted)
- Nuc Transfer Arranged Between Buyer & Seller



#### Midwestern Beekeepers Nuc & Queen Pool

- For <u>SUPPLIERS</u> ... Provides a Central Location Where MBA Member-Suppliers Can Post the Availability of Local Nucs and Queens
- For <u>BUYERS</u> ... Provides Stock Availability & Contact Information of Local Nuc & Queen Suppliers
- Requires Registration (Password Required)
- All Posted Stock Must Conform to the MBA Nuc & Queen Initiative Guidelines
- Registration, Submission & Browsing Pages
- More Information Available on MBA Website





Coder Name Badgel       Tranks for being a part of the Three Rivers Beekeepers Nuc & Queen Initiative.       Market December 2019         Coder Name Badgel       Sy completing this registration and submitting your must to the Initiative, you are agreeping initiative. If you are unfamiliar with the guidelines set of this the TF8 Nuc & Bother proceeding.       The River Beekee proceeding.         Nuc & Queen Initiative Registration/Nuc Submission       Nuc & Queen Initiative Registration/Nuc Submission       The River Beekee proceeding.         Nuc & Queen Initiative Registration/Nuc Submission       Nuc & Queen Initiative Registration/Nuc Submission       The River Beekee proceeding.         Nuc & Queen Initiative Registration/Nuc Submission       Nuc & Queen Initiative Registration/Nuc Submission       The River Beekee proceeding.         Nuc & Queen Initiative Registration/Nuc Submission       Nuc & Queen Initiative Registration/Nuc Submission       The River Beekee proceeding.         Nuc & Queen Initiative Registration/Nuc Submission       Nuc & Colume Initiative Registration/Nuc Submission       The River Beekee proceeding.         Nuc & Colume Initiative Registration Route Registratis Route Registration Route Registration Rou		Series Series	g St. Charles and the Surrounding Counties in	
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SupPort Your State     Medium     Association will dicuss       Organizzationi     Both Mediums ft Deeps     Association will dicuss       Get information on becoming a member of the Missouri State Beekeepers     Other (Top-Bar)     OUR SEPTEMBER MEEL       Please indicate frame size.     Please indicate frame size.     OUR SEPTEMBER MEEL       Availability Date     Illinois du speak on ling     "Sustainable & Natural       Image: Nuce will be existible starting this date.     OUR OCTOBER MEETING     OUR OCTOBER MEETING       Queen Type     Queen Initiative will speak on ling     Stu Jacobson of the Illing       Queen Type     Image: Stu Jacobson of the Illing     Stu Jacobson of the Illing		Frame Size		
SupPoRt Your STATE     Association will discuss       SupPoRt Your STATE     Image: Control of the interest of the in	۲,	• Deep		Missouri State Beekeepe
SupPort Your STATE ORCANIZATION: Get information on becoming a member of the Masouri State Beekeepers Association by citching here.       Both Mediums & Deeps       varety of other interesting subjects.         Please indicate frame size.       Ours SEPTEMBER MEET David Burns from Long Morey Bee Farms in Dan Ilminos will be avialability Date       David Burns from Long Will speak on Sustainable & Naturation Beekeeping".         Coming Soon       Queen Type       Our OCDBER MEET David Burns from Long Will speak on Sustainable & Naturation Beekeeping".				Association will discuss bee treatments, as well a
Get information on becoming a member of the Missouri State Beekeeperia Scottan by cicking here.     OUR SEPTEMBER MEET       Descepter Association by cicking here.     OUR SEPTEMBER MEET       Descepter Association by cicking here.     Availability Date       Image: Ima		C Both Mediums & Deeps		variety of other interestin
Beekeepers Association by citcling here.     Please indicate frame size.     David Burns from Long thorey Bee Farms in Dan linics by will speak on "Sustainable & Natural Beekeeping".       Coming Soon     Queen Type Queen Type     OUR OCTOBER MEETING Stu Jacobson of the IIII Queen Initiative will sp Beekeeping".	Get information on becoming a	C Other (Top-Bar)		
cdcbing here.     Availability Date     Honey Bee Farms n Dan Minos will speak on       Image: Coming Soon     Mucs will be available starting this date.       Queen Type     OUR OCTOBER MEETIN Studens of the Queen Initiative will sp Deckeeping*		Please indicate frame size		OUR SEPTEMBER MEET
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"Backyard Minimalist	Coming Soon	A CALIFORNIA DE CONCESSION		Stu Jacobson of the Illi
				Queen Initiative will sp "Backyard Minimalist
		Please provide the type of bees.		

#### John Timmons

From: Sent: To: Subject:	jit50@charter.net Monday, August 15, 2011 1:19 PM jit50@charter.net New submission from Nuc & Queen Initiative Registration/Nuc Submission
Name	
Tim Hyde	
Email	
tim.hyde@yahoo.com	
Phone	
(636)226-6474	
Number of Nucs	
4	
Nuc Туре	
Conventional	(Langstroth)
Nuc Sizes Available	
Five Frame	
Frame Size	
Deep	
Availability Date	
05/19/2012	
Queen Type	
Italian	

#### T DIVEDA DEEVE FR

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	Serving St. Charles and the Surrounding Counties in I	
ome About TRB FA	Q Membership Meetings Resources Club Programs Swarms For Sale	BeeHive
Order Your Name Badge!	The following suppliers have nucs and/or queens available for purchase. <u>Please</u> contact the supplier directly to make arrangements for purchase and delivery/pickup.	
Under Membership Name Badge	Each posting will remain for 30 days. If a request to renew the posting is not made to webmaster@threeriversbeekeepers.com prior to the 30 day expiration, the posting will be removed.	OI Me Je the by Te
	Telephone: 636-940-8202 Email: jit50@charter.net	ar
The Great MO "Buzz Off"	Nucs Available: 1 Nuc Type: 5-frame Bee Type: Local Survivor Stock Date Nucs Available: 6-11-12	He 11 Mu Ur
Great Missouri Buzz Off" statewide initiative to raise	Posting Date: 6-5-12	Fo
he awareness of bees and romote beekeeping.	Supplier Name: Bob Fincke Telephone: 636-305-8818 Email: <u>bjfinck@aol.com</u> Mated Queens Available: 6 Queen Type: Italian Hygienic	M 19 pr de
Get Your Buzzz On The Great Missouri Buzz Oli	Date Mated Queens Available: 4-28-12 Posting Date: 5-31-12	"T 17 
lick image to learn more	Supplier Name: Larry Hensley Telephone: (314) 355-6935 Email: <u>larrythebeeguy@charter.net</u> Nucs Available: More than 10 Nuc Type: 4-frame	00 <u>CI</u> 
Resources	Bee Type: Minnesota Hygienic Date Nucs Available: 5-7-12 Mated Queens Available: More than 10 Queen Type: Italian	As 26 Mi ag
inks & Resources	Date Mated Queens Available: 5-28-12	
ews & Noteworthy	Posting Date: 5-31-12	
leeting Materials		
Bee Buddy" Contacts		
lub Extraction Equipment		1
eginner's Reading List		
eekeeping Suppliers		
RB Nuc & Queen Initiative		

Equipment for Sale

#### Coming Events ...

UR JUNE MEETING ... inday, June 18th, 2012, 7:00 pm. rry Hayes will speak on his ork, his goals at Monsanto and ekeeping in general. As always, main meeting will be proceeded the 6:00 pm Q&A session with d Jansen. Click here for details d a map.

Contact Us

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artland Apiculture Society, th Annual Conference, St. Louis, ), July 12th - 14th, 2012, iversity of Missouri at St. Louis. more information and to register, to www.heartlandbees.com.

issouri State Fair, August 9thth, Sedalia, MO. Beekeeping oduct judging contests, monstrations. TRB will sponser RB Day-at-the-Fair" on August, th. Click here for details.

RB 2nd Annual Club Picnic, tober 14th, 2012, Klondike Park. ick here for details.

ssouri State Beekeepers sociation, Fall Meeting, October th & 27th, 2012. Kansas City, ssouri. Click here for details, enda and registration information.



IPPORT YOUR STATE GANIZATION! t information on becoming a ember of the Missouri State Beekeepers Association by clicking here.

#### Nuc & Queen Initiative Keys to Success

- \*Dedication to Education
- \*Summer Nuc Production
- \*Success in Over-Wintering Nucs
- \*Queen Rearing Instruction
- <u>\*May</u>- Great Start for Beginners

# **QUEEN'S Foundation RULES**

- Attend a Queen Rearing Class
- Midwestern 1st May 2, 2015 presented by Cory Stevens
- Research and Reserve your spot: Classes are usually limited to facilitate greater learning
- Grafting Methods vs. Non-Grafting

# Cory Stevens: Master Beekeeper Bloomfield MO



## Various Means to Raise Queens...Michael Bush

- <u>The Doolittle Method 1846</u>
- The Jenter Method (Apimondia's top award in 1986)
- The Hopkins Method 1911
- Isaac Hopkins on Queen Rearing 1886
- <u>Alley Method of Queen Rearing1883</u>
- Miller Method of Queen Rearing 1885
- <u>Smith's Better Queens Method 1949</u>
- Smith Method of Queen Rearing 1923
- A simple way to raise a few good queens











#### EZ Nuc Orders \$9 each Pick up March

- The Ez Nuc <u>www.jesterbee.com</u> can be stored flat when not in use and it also makes a great bait hive and swarm box to keep in your car ready for you to be someone's hero during swarm season! Be prepared to examine box and place your orders . You may make checks out to Midwestern Beekeepers Assn. When not in use these boxes can be miraculously stored "flat" saving much needed space!!!!
- (Est. delivery at Bass Pro "Special Gathering-Nucs" March 2nd)
- Stuart (795) 969-6110 stuartadietz@netscape.net



# Beekeeping Calendars \$15



June	2015	undoubledly Humans hav candy, and
lung	2015	Catch a star Evrope and eybeet for to

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Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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7 Flag Day	8	Third Gounter 9	10	11	12	13
14	15	New 16	17	18	19	20
Father's Day Sst Day of Summer						
21	22	23	Dianter 24	2.5 Sweet ten? Try some honsy inited of super -	26	27
28	29	Sinde 142 30	o	it's benjthior, and it tastes better teol		Res

## 20<sup>th</sup> Annual

# **Beginning Beekeeping Workshop**

## March 7, 2015

Midwestern Beekeeper's Association Saturday, March 7, 2015 (8:00-5:00) Part 2 Sunday, March 15 (2:30-4:45)

#### The 20th Annual Beginning Beekeeping Workshop is an all day event at The Point @ Graceway

5600 Blue Ridge Cutoff Raytown, MO 64133

The intensive class agenda includes: Bee Biology; Equipment; Acquiring bees; Spring, Fall, and Winter Management; Bee Diseases and Pest Management; Educational Opportunities; Extracting Honey; Hive location; Honey Plants; Beekeeping Etiquette;
 Questions and Answers; Door Prizes; and a chance to win a complete colony of honey bees. Registration Fee includes a Beekeeping Handbook, membership in both the Midwestern and Missouri State Assns., a monthly newsletter, refreshments, and lunch will be provided. Beekeeping Supply Vendors will be on site.
 Pre-registration Required due to limited space. Visit: www.midwesternbeekeepers.org Cathy Misko (660) 656-3485 or Cheryl (816) 509-5883

## Questions???

Bee on Snow-on-the-Mountain (Euphorbia marginata)

