Massachusetts Department of Agricultural Resources Apiary Program Update Spring 2022

Do You Have a Dead-Out or Unexpected Hive Death?



<u>Get an Inspection</u>: The Apiary Program Team offers health inspections and sampling if warranted of hives through the Winter months. To schedule an inspection for these hives, please submit the electronic form: https://www.mass.gov/forms/mdar-apiary-inspection-request-form.

Submit a Sample: Request FREE kits from MDAR and submit samples from your own hives. These FREE kits are easy to use by following the provided instructions and materials. Samples are analyzed and results provided directly to the beekeeper from the <u>USDA-ARS Bee Research Laboratory in Beltsville, MD</u> within a few weeks after receipt. There is no fee to process samples so you only need to pay for postage to mail each kit. These kits are great to use on hives that die during winter and throughout the season to aid in troubleshooting health issues.

Note that each kit contains materials to sample 1 hive so request multiple kits if your apiary contains multiple hives. To request simply send your *name*, *mailing address* and *quantity requested* via email to <u>bees@mass.gov</u> with the subject line "*Bee Kits*".

To find out more about the lab and sample processing visit their website: <u>https://www.ars.usda.gov/northeast-area/beltsville-md-barc/beltsville-agricultural-research-center/bee-research-laboratory/docs/how-to-submit-samples/</u>.



Submit Your 2022 Inspection Request NOW!

Weather permitting, inspections of live honey bee hives will resume March 1st 2022.

Are YOU interested in having an inspector visit your apiary? If so, don't miss out - submit your <u>Inspection</u> <u>Request</u> now: <u>https://www.mass.gov/forms/mdar-apiary-inspection-request-form</u>.

Our mission is to provide the best service and support possible to meet the needs of beekeepers and honey bees in the Commonwealth. We strive to visit every single beekeeper who requests an inspection and will do our best in 2022 to accommodate every request. However, we do appreciate your patience as the Apiary Program Team of "worker bees" tackle the routine "hive tasks" and emergencies throughout the Apiary Program Seasonal Calendar year.



Voluntarily Register Your Apiary Now!

A total of <u>936 beekeepers</u> have voluntarily registered their apiaries with MDAR since April, 2017 by using this quick online form: <u>https://www.mass.gov/forms/apiary-and-colony-registration-form</u>. Please consider taking a minute to register your apiary today so that we can best communicate with beekeepers and investigate honey bee health issues in your area.

Let Your Buzz Bee Heard! Take the BEE AWARE Survey!



Bee Educated! Join Us to Get the Latest Updates

STATE OF THE STATE: Update on honeybee health in the Commonwealth

TUESDAYS 7:00PM-9:00PM





Apiary Program



December 7th 2021 Inspection Season Data Summary

December 14th 2021 Honey Bee Viruses Pesticides

March 15th 2022 MA Beekeeping Laws and Regulations Spring Into Beekeeping

March 22nd 2022 MA Bee Aware Honey Bee Health Survey USDA-APHIS Honey Bee Health Survey

March 29th 2022 Spotted Lanternfly Asian Giant Hornet

Zoom Webinar ID: 870 4431 9225; Passcode: 165665 <u>https://us06web.zoom.us/j/87044319225?</u> <u>pwd=OFMrazc1Ulk2S1hIZ3Nkd2tjVVFpQT09</u> <u>One tap mobile: +13017158592,,87044319225#,,,,*165665#</u>

This event may not bee recorded so Bee There or Bee Square!

HONEY BEE EDUCATION DAYS AT STATE APIARIES Apiary Inspector

ON SATURDAYS 10AM-12PM!

- April 9th: Winter Evaluation & Spring Prep
- May 7th: Spring Management

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- June 11th: Summer Management*, Massachusetts Beekeepers Association Annual Field Day, Amherst location only
- July 9th: Pests, Parasites, Pathogens
- August 13th: Fall Management
- August 27th: 10am-2pm, Honey Extraction*, Danvers location only
- Sept 10th: Fall Management & Winter Prep
- Oct 8th: Winter Management

WHERE?

mass.gov

University of Massachusetts -Agricultural Learning Center (ALC) farm 911 North Pleasant St Amherst, MA 01002. Drive directly into field to park adjacent to apiary/sheds.

Essex North Shore Agricultural and Technical School (Essex Aggie) 565 Maple St (use 562 Maple Street address for navigation) Danvers, MA 01923. GPS: 42°35'20.5"N 70°5<u>8'33.2</u>"W

Health - Pest & Diseases - Management

Let's Talk about Beekeeping!

JOIN THE NEW ENGLAND AND NEW YORK STATE APIARY INSPECTORS "LUNCH AND LEARN"

2022 PROGRAM 90 MINUTE SESSION ON FRIDAYS

April 8 June 3 August 12

August 12 October 7

12:00 to 1:30pm Free & Open to the Public

Educational content will focus on topics of interest to beekeepers and regional colony management. Events will not be recorded so BEE THERE to BEE INFORMED!



Sponsored by the Apiary Inspectors of America (AIA)

Join Zoom Meeting

https://us06web.zoom.us/j/84953761589? pwd = V0NEbld0NkdiOUdiOCs0UXdOY1hpQT09 Meeting ID: 849 5376 1589 Passcode: 609112

VIRTUAL ONLY!

One tap mobile: Find your local number: https://us06web.zoom.us/u/krt6jmoz



Join the MDAR Apiary Program Team



Left to right: YOU!, David Saleh, Shay Willette, Kim Skyrm and Paul Tessier.

Are you interested in joining the MDAR Apiary Program Team? We will be hiring a new inspector to join the Apiary Team in 2022 to assist in covering inspections for Worcester County beekeepers. We are hoping for a March 2022 start date for the new full time, seasonal, contracted (no benefits) position. The job posting will be available soon so if interested check out the <u>Mass Careers</u> website and search for "*Apiary Inspector*" as the Job Title.

Fight the Mite! Plan for Varroa Mite Management NOW! UMass Extension MDAR 🥖 **SAMPLE REGULARLY** KNOW YOUR PEST (EVERY MONTH!) Meet the Varroa mite ... Alcohol wash **Integrated** Pest The Varroa Mite, Varroa destructor, is an The most accurate way to determine Management (IPM) for external parasite that feeds on honey bee Varroa levels in your hives adults and brood. They weaken bees and transmit viruses. Varroa mites MATERIALS an) 1/2 cup olid lid + lesh lid (50-70%) *1/8 inch hardware cloth, cut to match solid lid Unmonitored and unmanaged infestations of Varroa mites will result in colony death. **10 STEPS** 1) Pour alcohol into jar. Set materials in easy reach IPM is a decades-old farm strategy for COMMON SIGNS OF MITE DAMAGE: 2) Find a frame of open brood mitigating pests while minimizing chemical use. Check that the queen is not on frame! Experts now recommend IPM for Varroa. 3) Shake adult bees from frame into dishpan Scoop ½ cup (~300) bees and pour into jar Rather than relying on a "silver bullet", good IPM incorporates multiple practices throughout the season, based on pest levels and pest biology. **IPM PRINCIPLES:** Open or damaged pupal cells 4) Shake remaining bees from bin into colony Chewed-down pupae → KNOW YOUR PEST 5) Seal solid lid on jar and shake for 1-2 min Emerging adult bees with deformed or > PREVENT pest build up using missing wings 6) Let jar sit for 1-2 minutes non-chemical practices 7) Replace solid lid with mesh lid → SAMPLE REGULARLY Version 4, May 2020. Publication produced by the Massachusetts Department of Agricultural Resources (MDAR), University of Massachusetts, and Maine Department of Agriculture, Conservation, and Forestry (MDACF), to track pest population levels 8) Shake jar contents into empty dishpan 9) Count the total # mites. INTERVENE with pesticides when funded by the Northeastern IPM Center through grant #2014-70006-22484 If there are >3, it is time to populations reach damaging thresholds from the National Institute of Food and Agriculture, Crop Protection and Pest Management, Regional Coordination Program, and reprinted with permission from the Northeastern IPM Center. apply a chemical treatment (vary products to prevent pest resistance) (see inside of brochure) Drawings by Hannah Whitehead. Brood photo by Kim Skyrm. Other images from USDA Office of Communication in Research Science <u>https://www.</u> 10) Discard bees and mites sda.aov/media/blog/2014/05/13/helpina-honey-bees-health This pamphlet will help you to use IPM Wash all materials; can reuse alcohol principles to manage Varroa mites. USDA IPM → email bees@mass.gov for a free kit!



Varroa Mite Integrated Pest Management (IPM) Plan

Year_____

Apiary Name_

Hive Type_

Month	Colony Inspection Timeline (i.e. time - type)	Colony Population (i.e. stage)	Honey Flow (i.e. super)	Mite Monitoring Timeline (i.e. time - notes)	Non-Chemical Tools (i.e. cultural, mechanical, genetic)	Chemical Tools (i.e. miticides)
March						
April						
Мау						
June						
July						
August						
September						
October						
November						
December, January, February						

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Registered Pesticides for Honey Bee Hives

The following is a list of the United States Environmental Protection Agency (EPA) and Massachusetts Department of Agricultural Resources (MDAR) registered pesticide products labeled for use in honey bee hives for management of pests and parasites. These product registrations are currently active and will expire on 6/30/2022. Stay up to date on current product registrations and label changes by visiting the *Massachusetts Pesticide Product Registration Information* website: <u>http://www.kellysolutions.com/MA/pesticideindex.htm</u>.

These general use products can be applied to individual beekeeper owned hives. If applying to hives other than those owned by the beekeeper, then a pesticide license is required. Visit the following pesticide regulations to learn about the pesticide applicator license: <u>https://www.mass.gov/files/documents/2017/10/30/333cmr10.pdf</u>.

PRODUCT NAME	ACTIVE INGREDIENT	EPA REGISTRATION NUMBER	PEST/PARASITE
Api-Bioxal	oxalic acid dehydrate	91266-1-73291	Varroa mite
Apiguard	thymol	79671-1	Varroa mite
Api Life Var	menthol, eucalyptus oil, thymol	73291-1	Varroa mite
Apistan	fluvalinate	2724-406-79671	Varroa mite
Apivar	amitraz	87243-1	Varroa mite
CheckMite+	coumaphos	11556-138	Varroa mite, Small hive beetle
Formic Pro	formic acid	75710-3	Varroa mite
HopGuard 3	potassium salts of hop beta acids	82623-2	Varroa mite
Mite Away Quick Strips (MAQS)	formic acid	75710-2	Varroa mite
B402 Certan	Bacillus thuringiensis aizawai	94413-1	Greater wax moth