





NEW BEEKEEPER TRAINING

BEECON 2025 | October 18, 2025





Note

□ This presentation is available for download

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What is the Gadget Garage?

- Ingenuity, Craftsmanship, Creativity!
 - We enjoy the craft and practice of beekeeping
 - But we also enjoy the creative side of gadgets
 - This includes great products in the marketplace

□ A diverse mix of items

- Many homemade
- Some store bought
- Some creative ideas for using non beekeeping things...









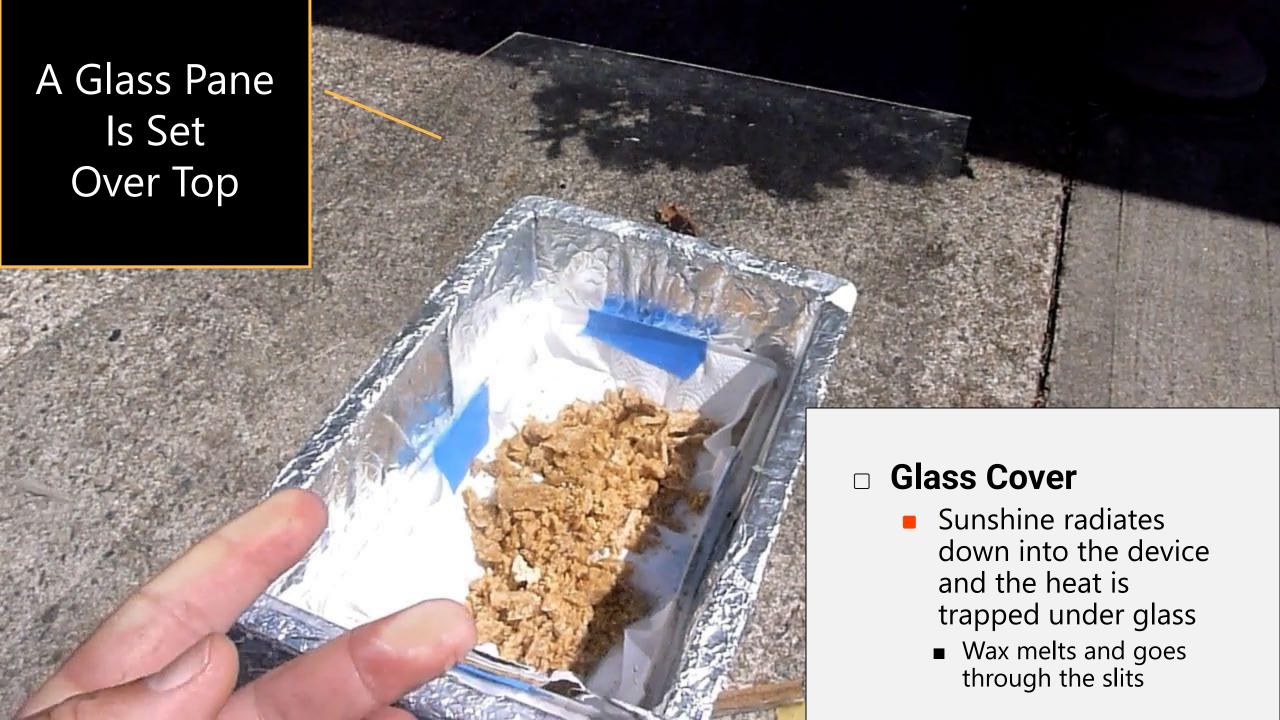


The Tray
Slides
Inside the
Cooler

Nestle the tray inside cooler

 It nestles in perfectly to hang over the water bath below













Quilt Box and/or Utility Box

Like an inner cover with an extended top

- Fill with insulated foam or other items (food, combination of both...) Place under the roof as an inner cover
- It has a raised edge underneath, like an inner cover, and a slot for the bees to get out.



Candy Board

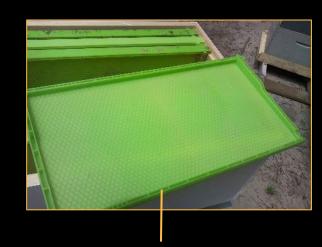
- Similar Concept Using a queen excluder base
 - This can be set under the roof and instead of an inner cover
 - You can place fondant or pollen patties on it
 - Bees have direct access to the food over them







Homemade Drone Brood Culling Frame



Store bought version

Drone Brood Culling

- No special equipment needed. Just affix a bar 1/3rd of the way down and the bees will put drone below
- Incidentally, bees often put honey above in the small space





4-Chamber Queen Castle

Four separate compartments for rearing queens









1. Pin to keep the birds from nesting

2. Tree mounting bracket



Portable Aluminum Work Platforms

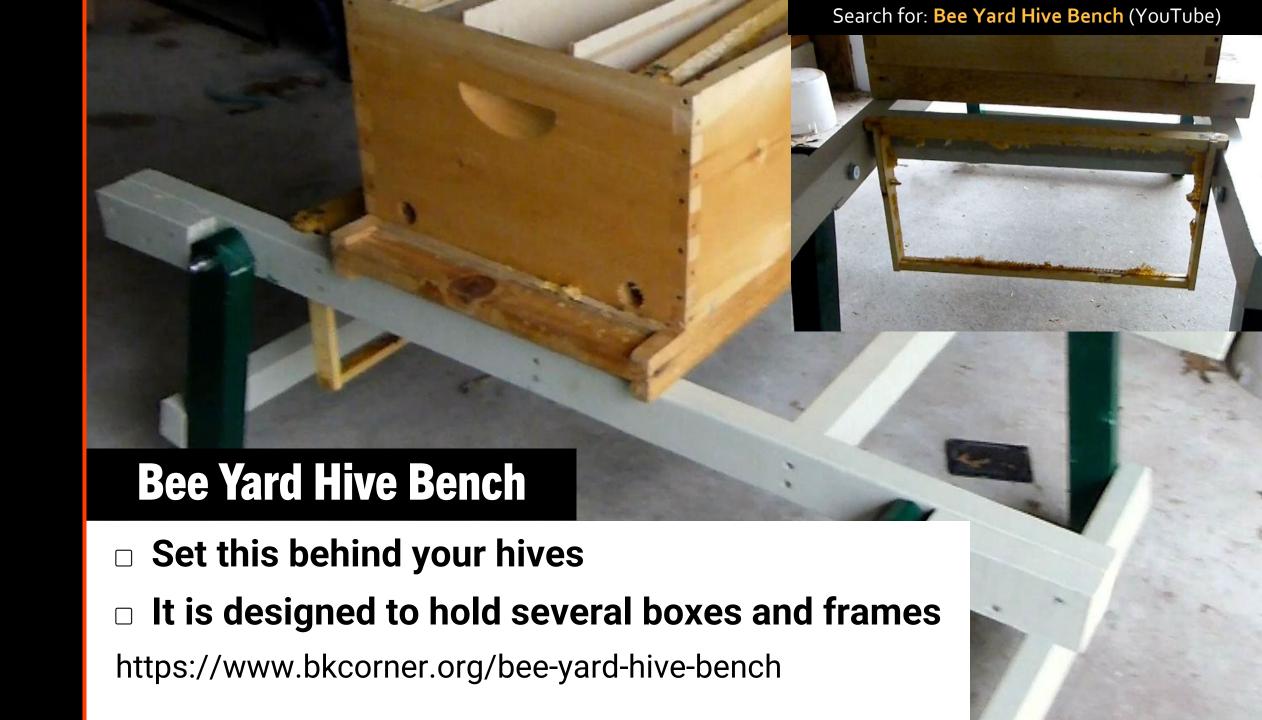
Hive Box Stands

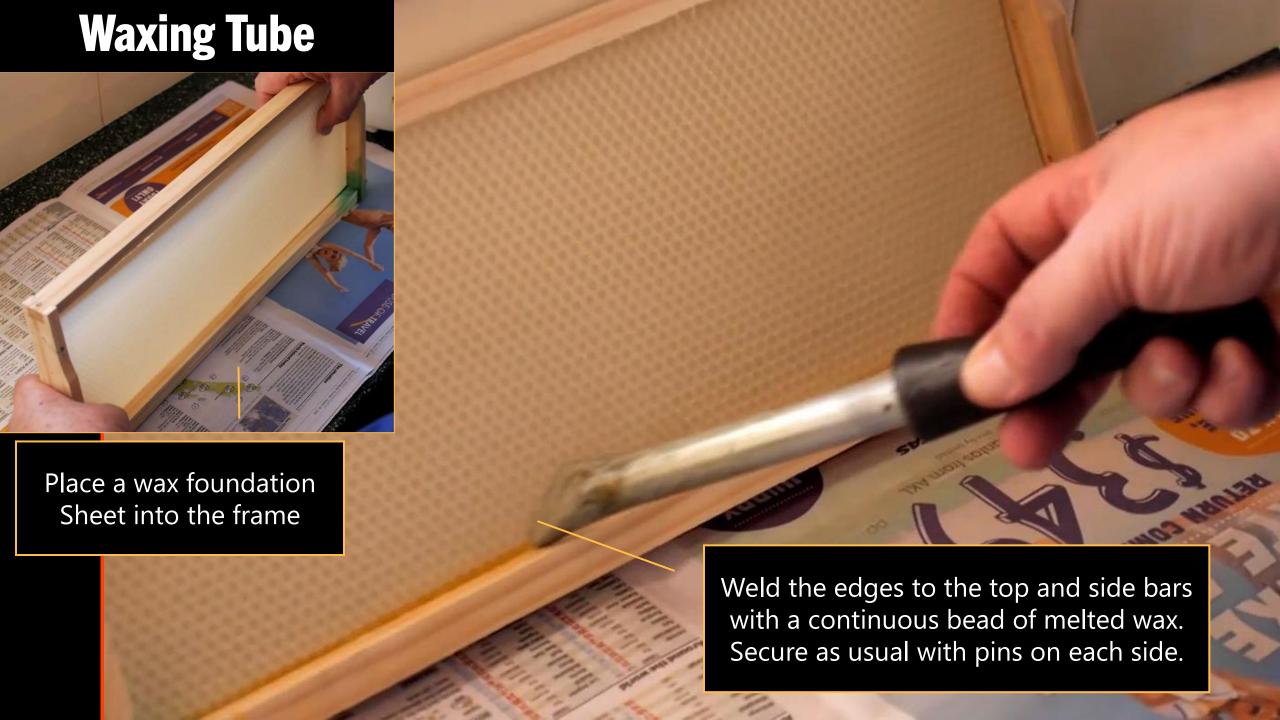
- 30"/40 Aluminum
 Portable Work Platforms
 - Sold at box stores, Harbor Freight, Northern Tool, etc.

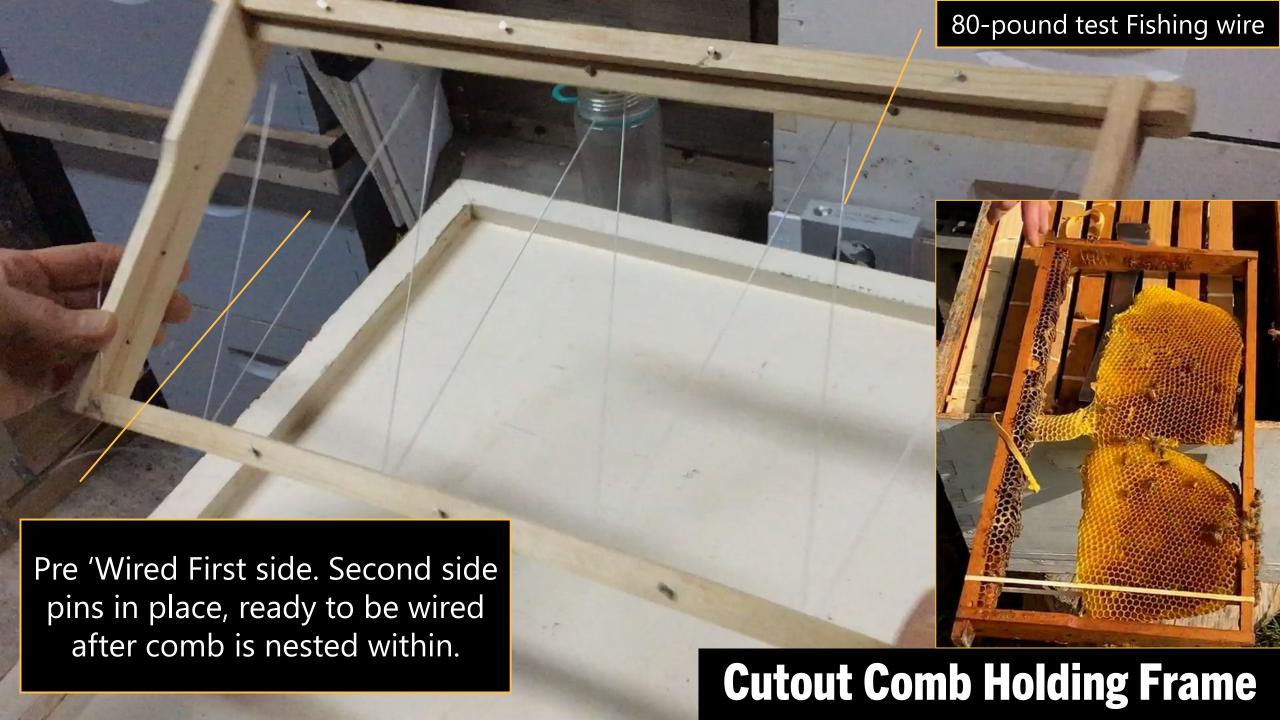


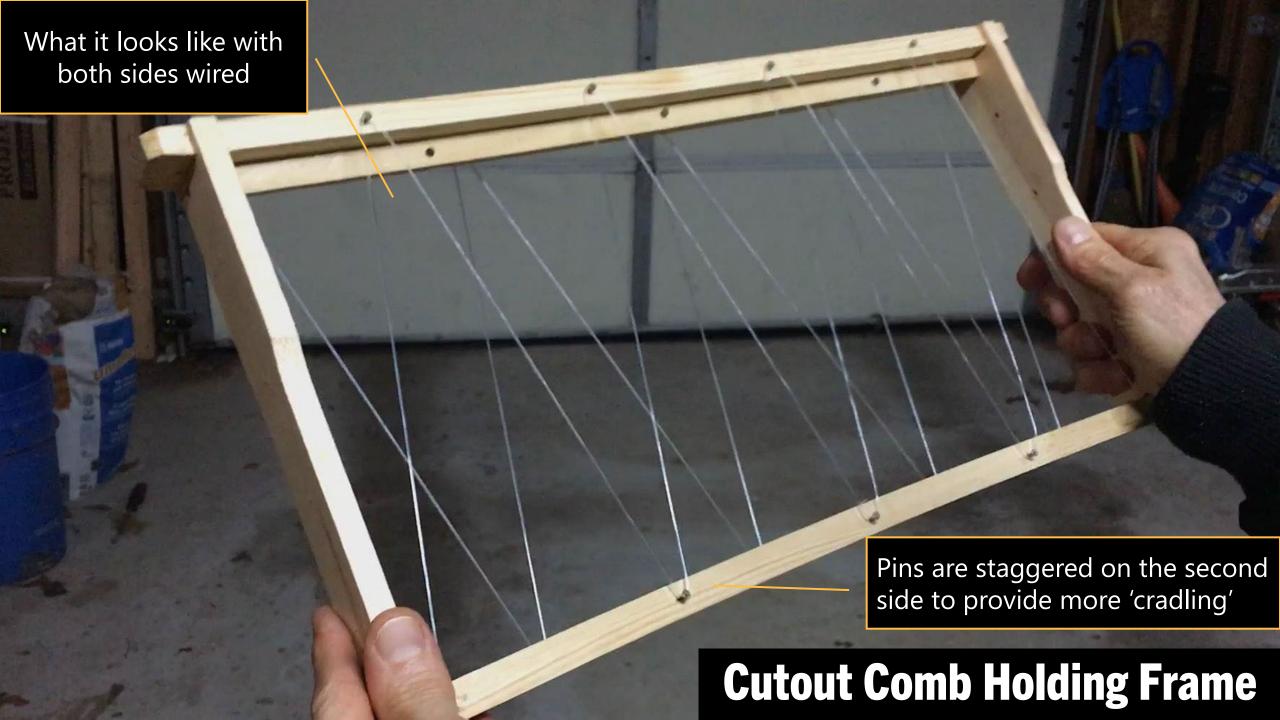












PVC Hive Stand

□ BKCorner Hive Stand

- Plans at <u>www.bkcorner.org</u>
- Advocate argument for how strong they are; he put his car on it

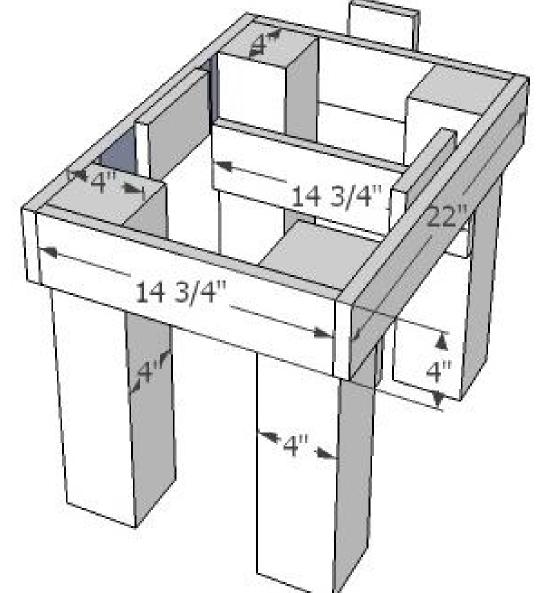




Little House on the Big Hill Hive Stand

Simple Wooden Stand

- This website has the plans to make this device
 - Some use it just as is, others get creative and tweak it to their liking
 - We have something like this in our NWNJBA teaching apiary, they are very good stands















Frame Assembly Jig

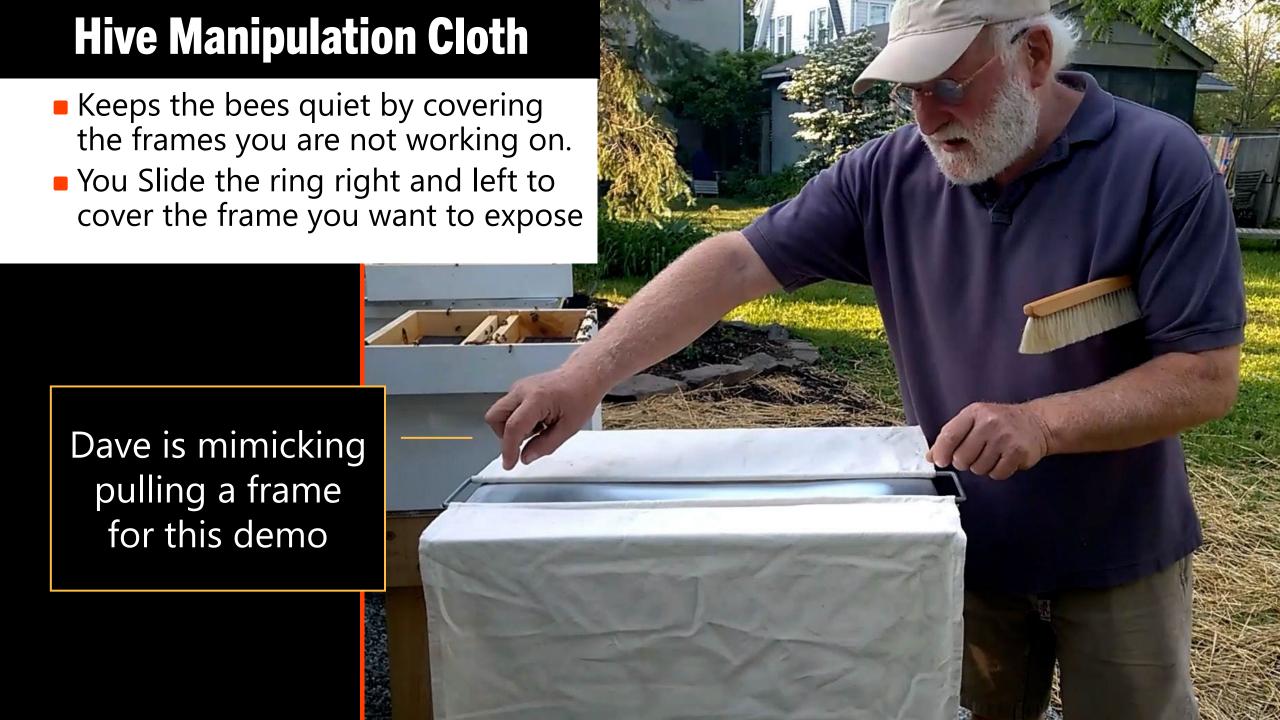
Source Robo Bushkill



Langstroth Hive Frame Assembly Jig

- Makes quick work of building frames
 - Like an extra set of hands and far more efficient than building one at a time.







Box Building Jig — Full/Nuc Boxes

Jig to build boxes square and true

- Use a solid base that will not 'warp' or 'twist in time. This one uses wood; which is not optimal
- Clamps have preset holes to mount to the base
- Enhances speed and ease for creating boxes.



Frame Shaker Tool

Modified Jig Saw

- Custom made frame grasp
- Shakes the bees off, clearing the frame
 - Use for shaking bees into a box
 - Use for clearing bees off a frame during honey harvesting
- Now in the US Market.



Hive Tool Holster

- Beekeepers usually go one of two ways...
 - Build their own or repurpose

Sources... □

- Garden tool holders
- Knife holsters
- Tool Belt add-ons
- Beekeeper Inventions
- Build your own







Bee-Lining Box

Source Kevin Inglin Inspired by Tom Seeley Bee-Lining Box



□ Bee-Lining Box

- Capture bees and then release to track them back to their hives.
- Recommend Meghan Denver's book (with Tom Seeley) for the methods.





Crush and Strain Setup

Two food grade buckets

- Honey set in overnight strains through to the bottom pail
- The large holes are necessary, or the flow will become clogged



Conventional Mite Sampling Tub

Using ½ cup Measure







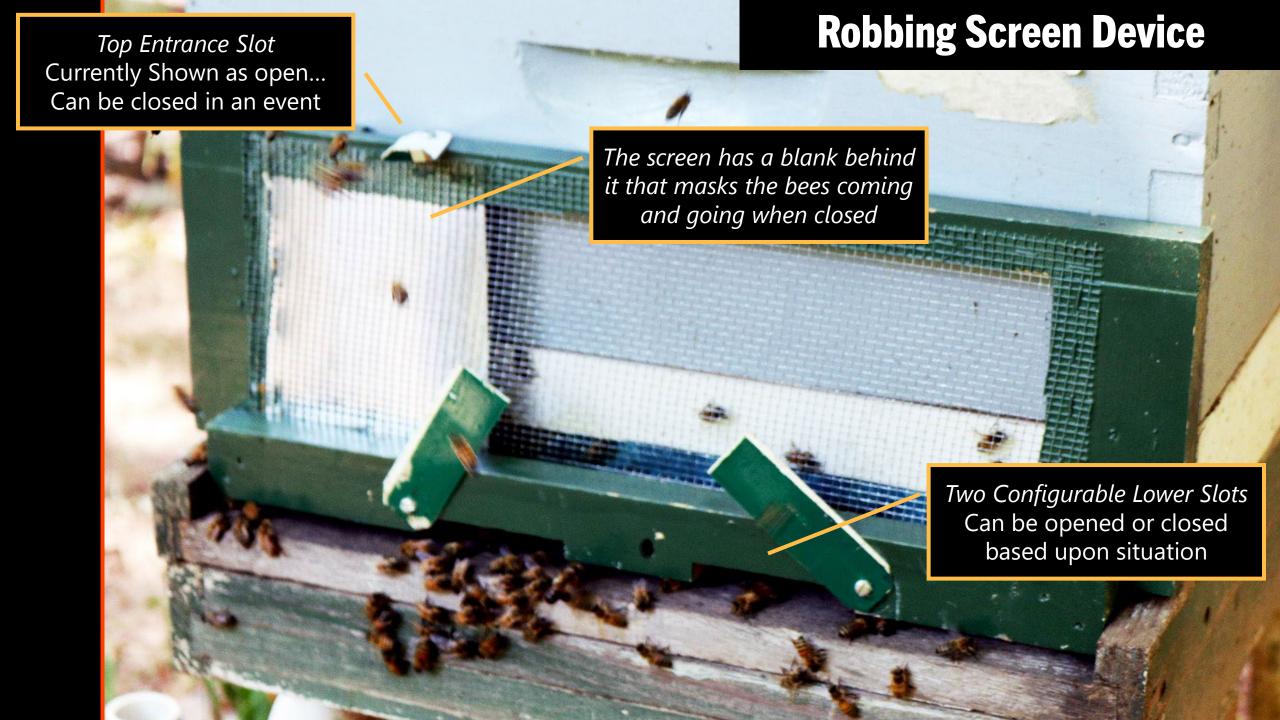












Randy Oliver's method(s)

https://youtu.be/D8lbm53JS5A



Cut hole with heated tomato paste can.

Cut #8 hardware cloth to fit.

Weld lids with soldering gun.

Randy Oliver Links:

www.Scientificbeekeeping.com

Randy's site has info on using this device, based on the PROPOLIS-ETC design (Right)

Randy also speaks of other tools, including an extensive feature on doing mite washes with a solo cup design



.....Website is in French



BEE SHAKER

\$19.00





Kitchen Crush and Strain

Dual Purpose Design

- Same principle as the Varroa Sampling device
- Two glass mason jars set over each other
 - The bottom mason jar lid with a screen inside
 - The top mason jar is just the ring
 - Simple painter's tape joins the two together and keeps humidity out.
- This was the result after leaving it overnight



Frame Scraping Tools

Special tools that clean groove in frames

■ Frame scraper (Yellow Handle) – Available in some bee catalogs







Upper Entrance Protection

Source Justin Shiffler



Upper Entrance Protection Guard

- Protect the entrance from the weather
- Make it more difficult for robbers

Political/Real Estate Sign Panels (Coroplast)

Invaluable Uses

 If you can source some of these sign panels, they have dozens of uses in a beekeeping operation

Some Examples...

- Set under and over a hive box on the side to keep the bees quiet
- Use to cover honey boxes when pulling boxes off for honey harvesting
- Set under hive boxes in garage



Imirie Shim

Source George Imirie Pink Pages



☐ Imirie Shim

 Simple middle entrance to give easier access to honey chamber **Endoscopes Cell Phone Cameras**

Hardware and software packages





Endoscope Video Footage



FLIR Heat Sensor Cell Phone Cameras

Hardware and software packages



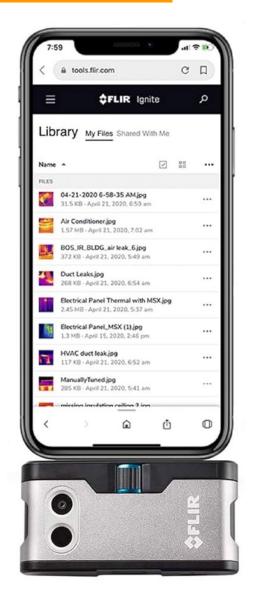
There are other brands available besides FLIR, but FLIR are the most well known





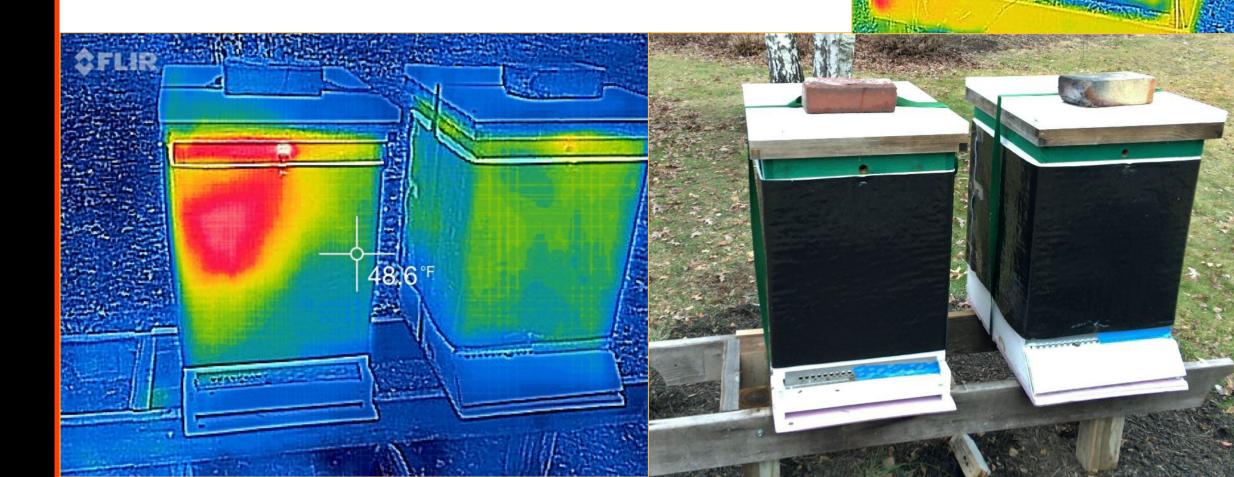
□ The Hardware for both is similar

- The software is tailored to the O/S
- Now use USB-C Connectors
 - Connectors are available iPhones with the older lightning connector





- The top bar made it to spring with a small colony >
- Below; The hive on the *right* did not make it.



Digital Microscope

□ 1000x magnification

- Works with WIFI to your IOS and Android devices
- Works with USB Cable to Windows or MAC









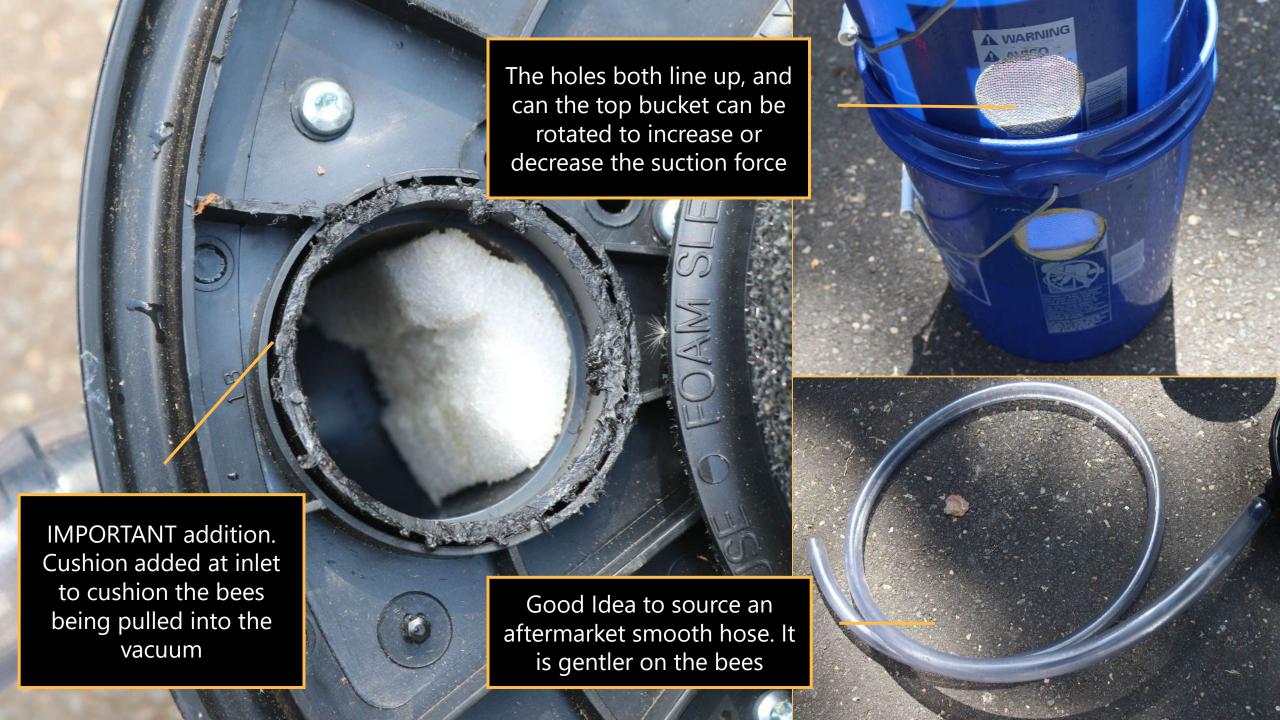




LED Head Magnification Lamp







Any Questions

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