Adding Beeswax for Comb Building: The Wade Wax Method

The Experiment

Last summer, Dave Wade of Sturbridge, MA (Worcester County Beekeepers' Association), started an experiment to see if he could get his bees to draw out comb from wax added to frames. The idea was to facilitate comb building later in the season than is typically productive. As we know, they start winter prep after the summer solstice. Wax production decreases which can leave colonies without enough comb for their winter stores or even brood for winter bees.

The Results

This experiment proved fantastically successful. Dave spent time experimenting with different wax materials (e.g. foundation sheets, cappings, and burr comb) as well as different application methods. Following is the method he found most effective.

Potential Benefits



How It Works

Use slices of wax foundation (sans wires) to make "rolls." Fold them in half the long way, twice. It helps to use a tool such as a skewer, small dowel, or pastry knife to get the folding started. Rolling is fine too. Use pins (all metal or clear/white glass heads) to hold them in place on the frame. For wax foundation, pin through the roll and foundation into the roll on the back side. You'll be able to remove the pins once the bees begin to use the wax. Dave uses wax foundation with wooden frames and did not have experience with plastic foundation or frames. The following pictures are from his work.



This frame was placed on Sep 2, 2024.



It looked like this on Sep 7, 2024.

Dave said, "Be aware, when any wax was placed on the face or on the outside of the frame, some of it stayed there unused. In addition, if the wax was compressed too tightly, or pressed too firmly into the surface, it was not used. The bees apparently could not grab it with their mandibles."

Sources

Wade, Dave. Helping Your Bees Draw out Comb. YouTube, <u>NC State Apiculture</u>, 2025. https://youtu.be/bj60t74xc9s? si=bmfJl7grOSHoH83P

Wade, Dave. Adding Beeswax to Make Honeycomb. <u>American Bee Journal</u>, vol. 165, no. 6, Jun. 2025, pp. 636-59, <u>www.americanbeejournal.com</u>.

Wade, Dave. Adding Beeswax to Make Comb. NH Beekeepers Association Annual Cookout, Muster Field Farm, Sutton, NH.

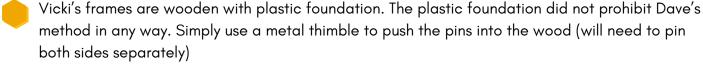
A few notes from Virginia & Vicki

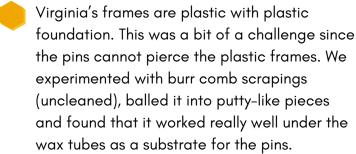
We attended Dave Wade's presentation at the NH Beekeepers Association cookout on July 26, 2024. We found his experiment compelling and left the event heading straight to one of our beekeeping supply sources (BusyBeezzz in Hooksett, NH) to purchase wax foundation.

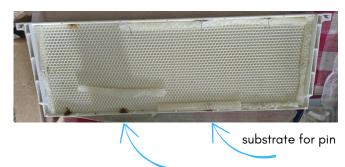


We rolled wax to fill a new medium super for one of Virginia's colonies and a new shallow honey super for Vicki's colony.

Here's what we found:



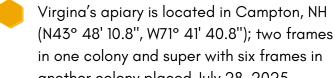


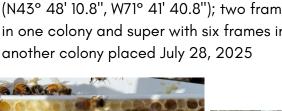


"putty" from burr comb scrapings

Results

Our apiaries are approximately 2.66 miles apart (as the crow flies).

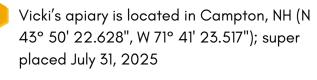


















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A few^notes from Virginia & Vicki (& Dave Wade)

Sunday, August 10, we attended the Essex County (MA) Beekeepers Association Meeting that took place at the home of a friend of Virginia's (actually used to be Virginia's house) in Derry, NH. We were invited and were excited to attend because Dave Wade would be presenting at the meeting.

We listened again to his presentation but this time from the very beginning. Following are a few facts that Dave presented that didn't make it into our first set of notes:

