



Onward to the Long Langstroth Hive. Here are my two hives in current use.



My history with the Long Langstroth Hive

- I was exploring the possibility of putting a top bar hive in the club apiary
- My research led me to see that top bar hives had a lot of issues
- The Long Langstroth hive addressed the short comings of the top bar hive, while preserving its assets.

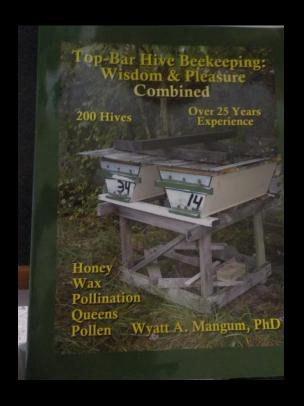


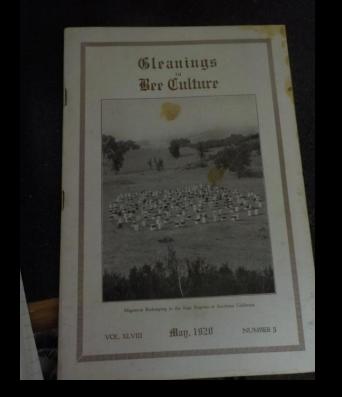
The most important issues:

- Ventilation
- Capacity
- Compatibility with traditional equipment
- Ability to extract combs
- Disruption during inspection

Assets:

- No heavy lifting
- Adjustable height
- Relaxed management
- Can view the hive's progress easily
- Much less disruption during inspection
- Easier to find the queen/determine queen status



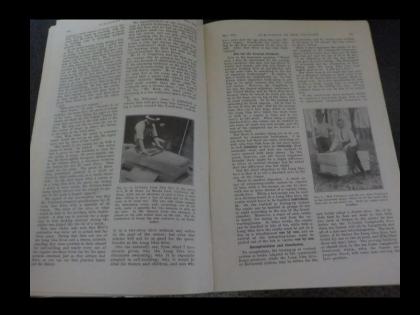




Basic resources I used to develop my version of the Long Langstroth hive.

Here is a quote from the May 1920 *Gleanings in Bee Culture* article entitled, "Long Idea Hive Again" – "Bees swarm because in an ordinary 10 frame hive the queen is cramped for room. After filling the eight or nine frames she skips the two outside frames because they are next to the cold sides of the hive. She does not like to cross the one or two inches of honey up above the brood; so she stays in the lower story."

– The author of the article then explained why the long hive solved that problem because the queen has unlimited space to move back with the brood nest and does not feel cramped and inclined to prepare to swarm.





Entrance information:

- Bees always place the brood near the entrance
- In a vertical hive the frames are perpendicular to the entrance
- Putting the entrance on the end of the long hive keeps the brood on one end, and the honey behind, which is important for the winter.
- Putting the entrance in the middle splits the honey stores on both sides of the brood nest, which could potentially cause winter starvation.
- Some styles put the entrance up front but on the side. This puts the entrance perpendicular to the frames as in a vertical hive.
- I have found the bees can defend the entrance better with the frames parallel to the entrance rather than perpendicular, but I don't think it matters that much.
- Some people run a double hive in a long box. That is fine, but is not really the goal I chose to achieve with my design. A two queen system will always make more honey, but requires intense management to prevent swarming. My goal was less management.

















Here is the single walled version with the peaked roof. This is the final design we ended up with after five years of experimentation. Plans for this hive are on my website – abbottsustainablefarms.com. The plans are in a printable .pdf format and there is also a photo gallery of the hive being assembled. We used three standard inner covers with notches for ventilation. We added extra notches for more ventilation. We use standard deep Langstroth frames. I use foundationless frames, but others have used regular frames with foundation with no issues.







This is the double walled version with the nested inner covers. We discovered that not all inner covers are exactly the same size, so we have to be careful which ones we use in this hive to get three to fit in.





Honey frames in the long hive.



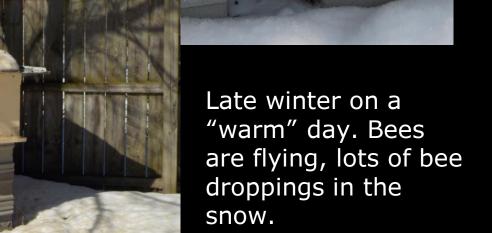


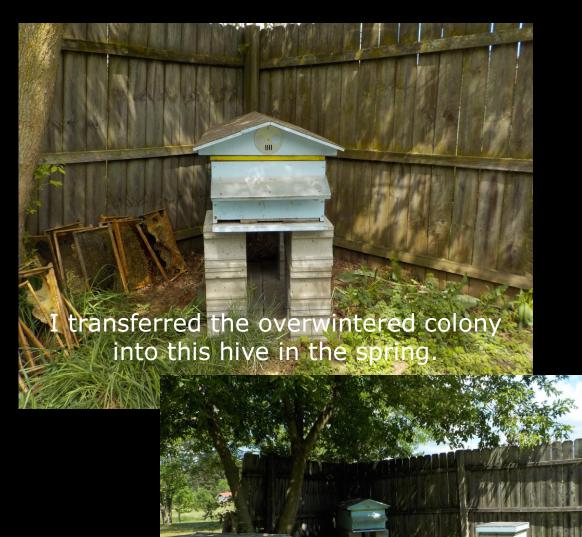
cluster is!





Even with the deeper snow, notice the indentation where the heat of the cluster has melted the snow.





The overwintered colony did

swarm - in April!!











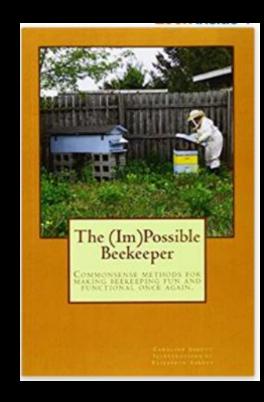












My book available through Amazon. There is a direct link on my website, or you can search it.

Contact information and resources:

Caroline Abbott – www.abbottsustainablefarms.com

Wyatt Mangum's book: <u>Top-Bar</u>
<u>Beekeeping: Wisdom and</u>
<u>Pleasure Combined</u> <u>https://www.tbhsbywam.com/</u>

