

Bernardo Niño





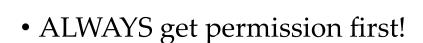
Outline



- Apiary Set-up
- Hive equipment
- Other necessary equipment
- Alternative hive types

Where to put your honey bees

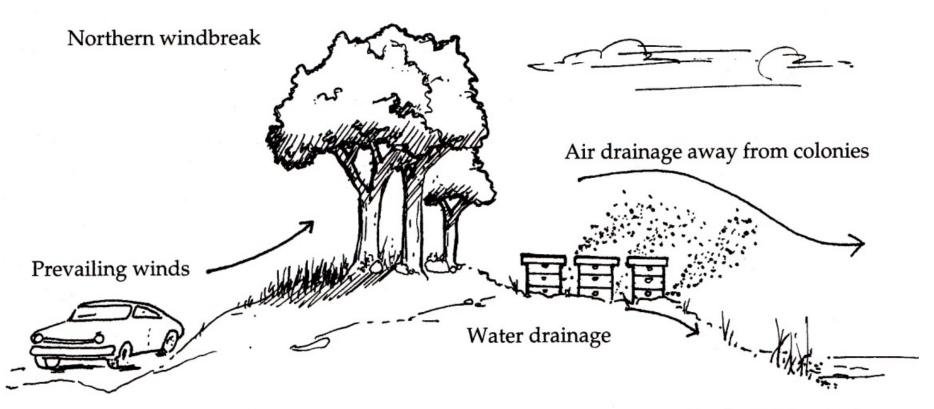
- Your backyard
- Your friend's backyard
- Farms
- Businesses





Picking an apiary site

Ideal Apiary Site



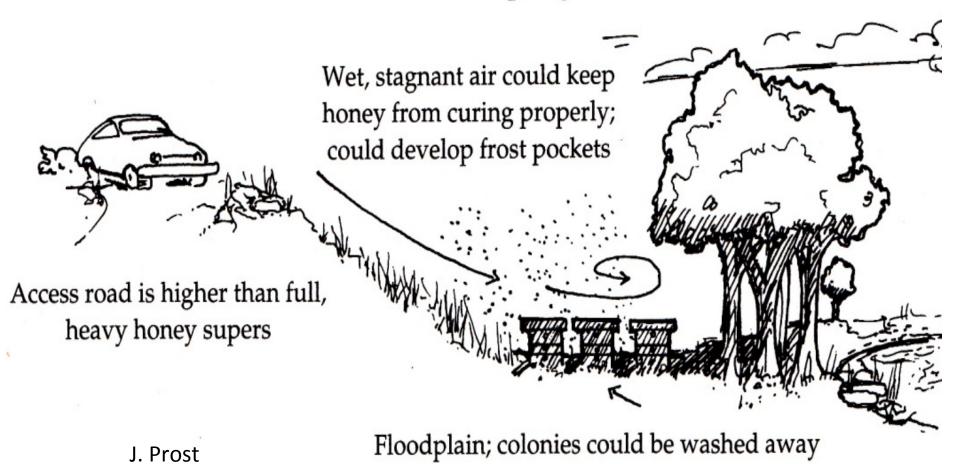
Access road is at an equal or lower level than full supers; accessible year-round

Fresh running water

J. Prost

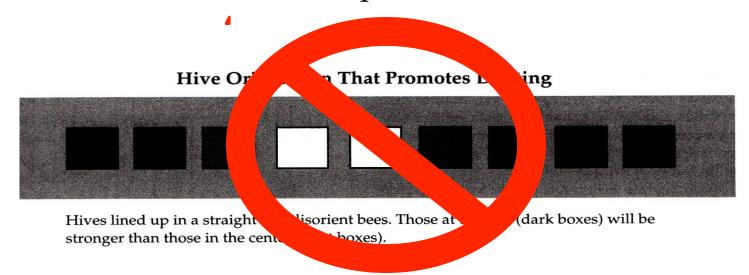
Picking an apiary site

Poor Apiary Site



Apiary setup and hive orientation

- Hives too close together can cause agitation, but too far apart and the labor is more intensive
- Entrances should face south or east
- Reduce drifting by using a horseshoe pattern, providing a windbreak, or painting bottom boards different colors/ patterns



Outline

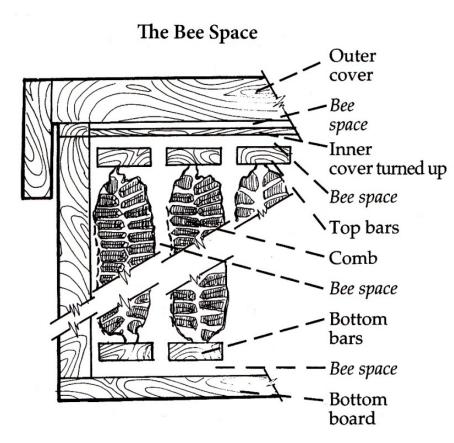


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Langstroth hive

- Lorenzo Lorraine Langstroth (1810 –1895)
- Patented in 1852

- Important because he discovered "bee space"
 - -3/8 inch (9.5mm)



Beekeeper's Handbook

Hive components

- Bottom Board
 - IPM
 - Solid
- Boxes/Supers
 - Deep
 - Medium
 - Shallow
- Frames
- Cover
 - Telescoping (inner and outer)
 - Migratory



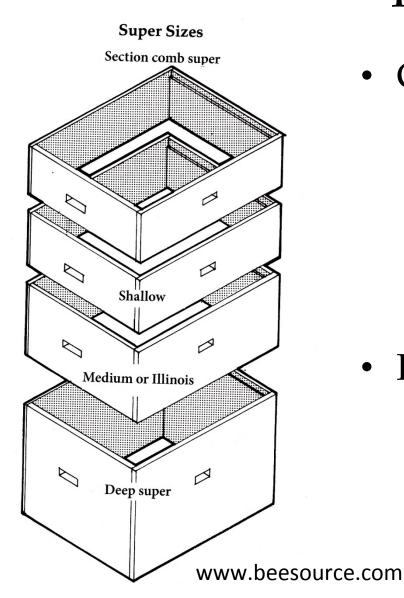
Bottom boards





- Solid better for warmth
- IPM (screened) can be used for Varroa mite monitoring

Supers



- Can be in 4 sizes
 - Comb, (4 13/16 ")
 - Shallow, (511/16")
 - Medium, (65/8")
 - Deep (95/8")
- Pick which is best for you!

Brood box (super)



- Usually a deep box
- Where all the brood is reared

Queen should reside here

Honey super



Usually NOT a deep super

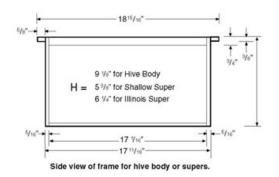
Queen excluder recommended

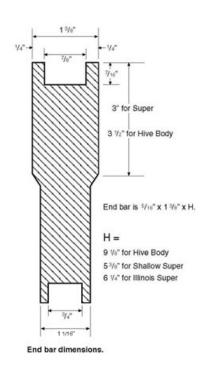
• No Brood!

Frames



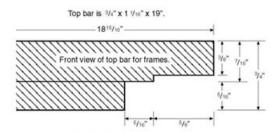
Side view of hive body or supers.





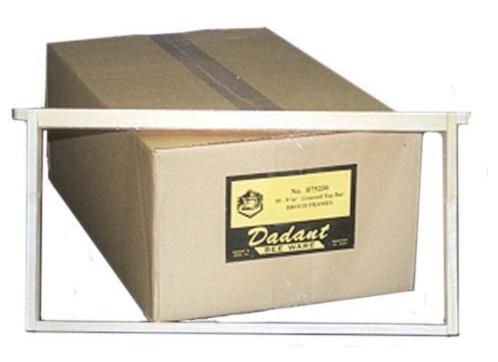
Frame sizes

- 1. Deep
- 2. Medium
- 3. Shallow



Top bar dimensions.

Frames



 Wood frame w/ wax or plastic foundation

• All plastic frames



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Migratory hive cover



Used in areas with less rain

 Can easily be modified for can feeding

 Easier to stack closer together for pollination

Telescoping hive cover



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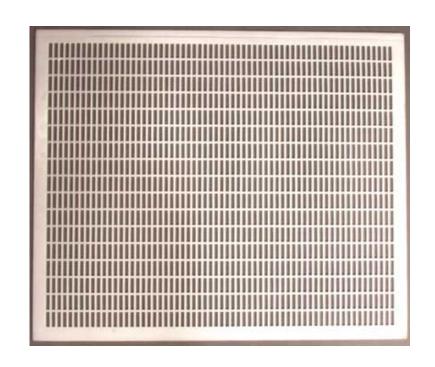
- Two parts
- Protects hive from the rain and snow
- Heats up easily
 - Paint
 - Shade
- Harder to stack closer together

Queen excluder

Placed on top of brood supers

 Queen too big to go through but workers can move freely

Honey supers remain brood free



Handle with care

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Entrance reducer

- Should be utilized in spring and fall
- Can help regulate airflow which helps climate control in the hive

Prevents robbing

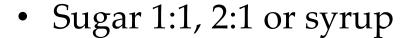




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Feeders

- Should be utilized with packages and during dry times of the year
- Types
 - Entrance feeders
 - Top feeders
 - In hive feeders
 - Feeding cans





Hive staples/straps

 Useful when moving short or long distances





Hive stands

- Makes lifting easier
- Extends life of equipment
- Helps with pest control, skunks, rodents, ants, etc.



- Types
 - Cinder blocks
 - Railroad ties
 - Pallets
 - Tiles
- Prepare ground first with weed control or flat shingles

Make your own hive stands

Our hive stands with ¾
inch conduit pipe

Better for ant control

Oil or tanglefoot can be applied easier



Can be made to fit 1,2, or 3 hives

ANTS!!!





Ant Video



Outline



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Alternative hive types

Top-bar hive

Warre hive

Flow Hive





Top-bar hive

- Lower cost
 - Easier to build yourself
- Lots of maintenance
- No heavy lifting
- Lower honey yield than Langstroth
- Foundationless frames
- More docile bees?

Warre Hive

- Lower cost than Langstroth hives
- Low maintenance
- Lighter than Langstroth hives
- Comparable honey production to Langstroth*
- Foundationless frames
- Fancy looking

Flow Hive

- Expensive
- Particularly challenging in CA
- Presumably easier honey extraction
- Innovative



Which is right for you?

 Generally a good idea to start with a Langstroth hive

 Many more resources for managing Langstroth hives

But Langstroth is not perfect!

• Smoker

• Veil

• Hive tool

• Bee brush

Gloves



Smoker

• 4 X 7 inch or 4 X 10 inch

 Bigger smokers are easier to light and last longer before additional fuel is needed



- Fuel
 - Wood chips
 - Pine needles
 - Dried grass
 - Fuel pellets

Veils/Jackets

Wire mesh veil with helmet

Sheer veils with hat or helmet

- Jackets style (veil and half suit)
- Full suit



Hive tools

- Personal preference
 - Hand size
 - Equipment type
- Too dull
 - Wont cut through wax & propolis
- Too sharp
 - Will damage frames



Bee brush

- Used for gently getting bees off of the frame
- Useful for
 - Honey extraction
 - Grafting
 - Science!



Gloves

 Don't provide the dexterity necessary for proper bee handling

Useful during an accident or really defensive colonies



A few bigger vendors

Brushy Mountain

T. BOO-BEESWAT

Mann Lake



AN EMPLOYEE OWNED COMPANY

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Questions???