

Build a Wild Bee nest



Bees live in different nests



Stems



Structures



Ground




Wood blocks



Wild Bee "Hotel"

For stem & wood nesting bees



 THE XERCES SOCIETY
FOR INVERTEBRATE CONSERVATION

Tunnel Nesting Bees

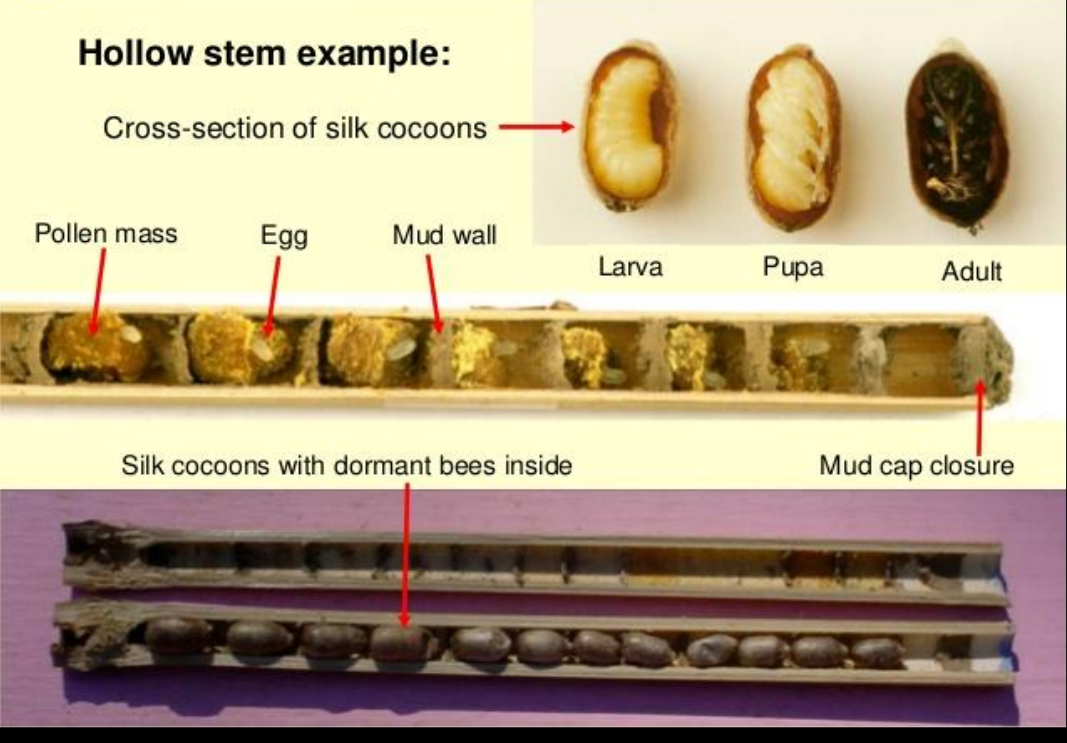
Hollow stem example:

Cross-section of silk cocoons →

Pollen mass Egg Mud wall

Larva Pupa Adult

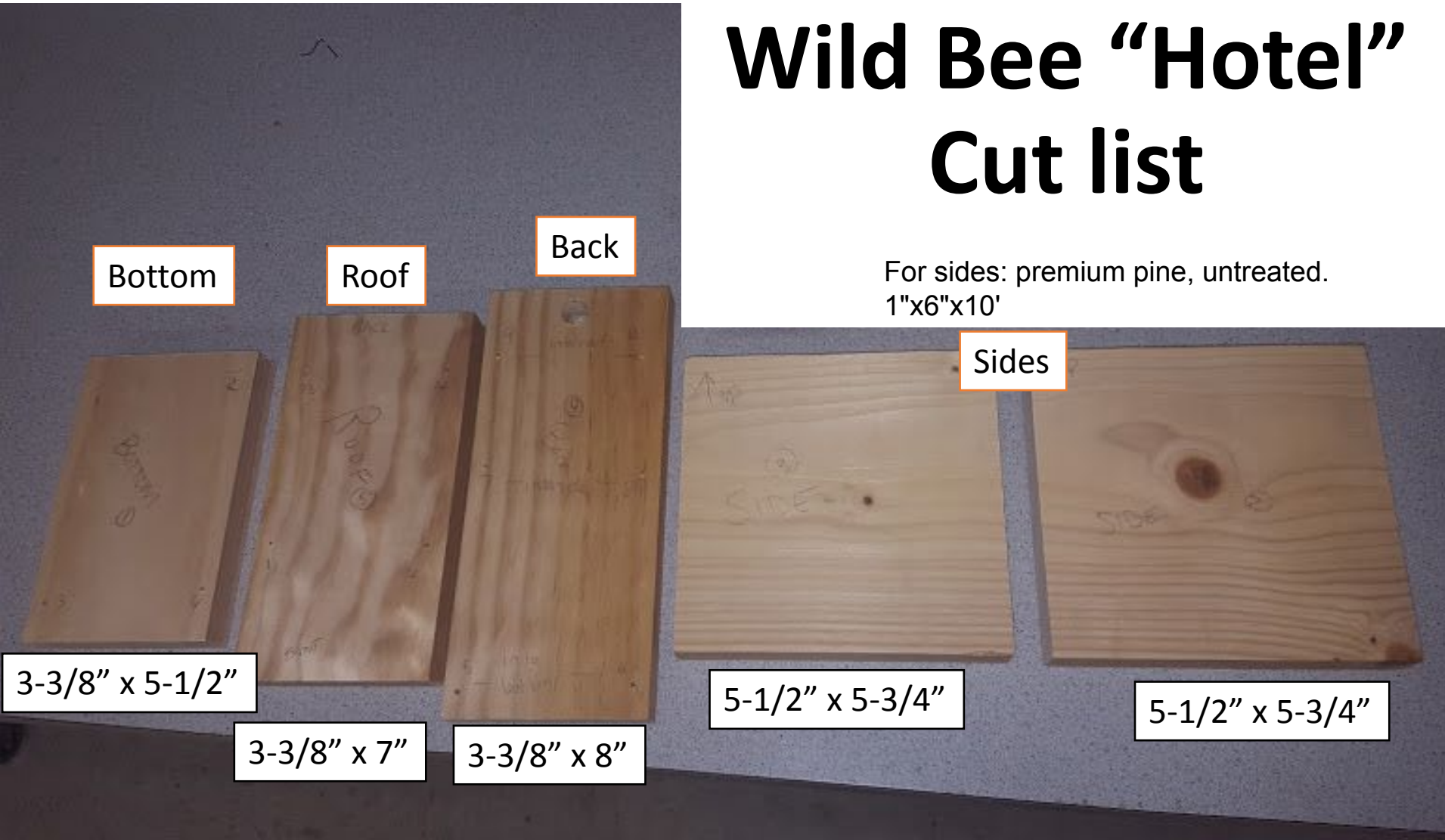
Silk cocoons with dormant bees inside Mud cap closure



For bottom, roof, back: premium pine, untreated.
1"x4"x10'

Wild Bee "Hotel" Cut list

For sides: premium pine, untreated.
1"x6"x10'



Photos by University of Nebraska-Lincoln

You will also need 1-1/4" nails, a hammer, sandpaper, and nesting material.

Nesting Materials

- Must have a pith/cross section of some kind, indicating stems are hollow
- Must be 4-6 inches long
- Can/should have different diameters
- Plants/ materials that can be used include:
 - **Bamboo** stems
 - **Native plants** (see how to video)
 - **Rolled newspaper** (dip end in mud or drywall plaster to seal one end)



Wild Bee “Hotel”



- We recommend drilling a hole at the top of the back so you can hang the hotel.
- Please see our Wild Bee Nest Guidelines document for more information on nesting material, where to attach the hotel, and how to maintain it.
- For more information see video link
 - https://youtu.be/PY_YJN9H6CM



You will also need 1-1/4” nails, a hammer, sandpaper, and nesting material.

Bees that will use your hotel

Leaf-cutter bees



Materials:

- pieces of leaf
- pieces of rose and other vibrant flower petals



Photos by University of Nebraska-Lincoln



Bees that will use your hotel

Mason bees



Materials:

- dirt mixed with water

creates mud partitions



Photo by University of Nebraska-Lincoln

Photo by Werner Redlich, pixabay



Bees that will use your hotel

Wool Carder bees



Photo by University of Nebraska-Lincoln

- Female wool carder bees will scrape fuzz off of plants and use it to line their nests

Materials:

- Fuzz from plants



Photo by University of Nebraska-Lincoln



Bees that will use your hotel

Resin bees



- Female resin bees will secrete a polyurethane or plastic like substance

Materials:

- Resin



Bees that will use your hotel

Quiz!

- | | |
|--------------------|---------------------------------|
| A. Mason bee | 1. Leaf and flower petal pieces |
| B. Leaf-cutter bee | 2. Dirt mixed with water |
| C. Wool Carder bee | 3. polyurethane-like substance |
| D. Resin bee | 4. Plant fuzz |



Be a bee scientist!

Scientists have to gauge populations of bees to make sure they are healthy or document changes.

How many of each bee type are nesting in the image based on the cappings?



Photo by Julia Brokaw, Michigan State University, "Leafcutter bee (Megachile sp.) sealing her nest in bamboo tube."

