



The Trees and the Bees

Winter Woodlot Conference

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Presentation Plan:

- Basic knowledge: honey & humidity, nectar, honeydew, pollen, propolis and shelter
- Trees & pollen
- Trees & nectar
- Trees & honeydew
- Trees & propolis
- Trees & material used in the construction of the hive
- Trees & shelter

Pollen



The Pollen:

food for the brood



The Pollen:

used to prepare the Royal Jelly



Honey



% of humidity

- Honey <18%
- Nectar $\pm 60\%$
- Honeydew $\pm 25\%$

Propolis



Resinous product
which is:

- Used to aseptinize the hive.
- Used to seal any openings.
- Used to stabilize the frames.

Trees & Pollen

The first sources of pollen, in springtime:
willows, aspen & maples.



The Trees and Nectar



Mostly in the Spring:

- The maple sap.
- Fruit trees: serviceberries, plum trees, cherries, pin cherries, apple trees, hawthorn & mountain ash
- Black locust, & basswood.

The Trees & honeydew

- Aphids use the proteins, but they reject the sugar of the sap
- Aphids are found on pines, fir, spruce, oaks, beech and willows.



The Trees and Honeydew



The Trees and Propolis

The propolis is a resinous substance which is collected from the trees.

Willows, aspen, birch, plum tree, pine, fir and spruce.

The Trees and the material used in the construction of the hive.

White pine:

- Light
- Rot resistant...
- Does not warp
- Easy to work
- Knot free...

The Trees: a natural habitat



The Trees: a natural habitat

- The bees live in cavities: trees, building walls,.....,



Trees provide a shelter

When the bees come back from the field, if it is very windy, they might drift; with a shelter, it is less of a problem.

In winter, the shelter wood protects the hives from the cold northwest wind.

Trees provide a shelter



Trees provide a shelter



A close-up photograph of a person's hand holding a woven straw hat against a light blue background. The hat is made of a light-colored, textured material, possibly straw or bamboo, and is held in a way that shows its circular shape. The person's hand is visible at the top of the frame, holding the hat. The background is a solid, light blue color.

Thank you!