Bees in the Holy Qur’an

Is the Real Drink of Different Colours which exits from the bee’s bellies means only the Honey, and what are the meanings of bellies?

..There comes forth from their Bellies a drink of varying Hues..

..يَخْرُجُ مِنْ بُطُونِهَا شَرَابٌ مُخْتَلِفٌ أَلْوَانُهُ... (النحل: 70)
69. And thy Lord revealed\textsuperscript{1556} to the bee: ‘Make thou houses in the hills and in the trees and in the trellises which they build,

70. ‘Then eat of all manner of fruits, and follow the ways taught thee by thy Lord and which have been made easy for thee.’ There comes forth from their bellies a drink of varying hues. Therein is healing for mankind. Surely, in that is a Sign for a people who reflect.\textsuperscript{1557}
Bees in the Holy Qur’a’n

The Quran, Surat Alnahl Verses: 69-70

..There comes forth from their Bellies a drink of varying Hues

1- Bellies «بطونها»

2- A Drink of varying Hues”Colours”
Drink of Different Colors

شراب مختلف ألوانه

The Honey Connoisseur Color Guide

There are seven designated colors of honey in varying intensities from water white to dark amber. This standard system for measuring the color of liquid honey is called the Pfund color grading system. Color is measured visually using a glass tile and is expressed as the relative lightness or darkness of amber on a scale in millimeters. Below are the seven colors of honey using the Pfund system and a few types of varietal honeys that correspond to those colors.

<table>
<thead>
<tr>
<th>Color</th>
<th>Description</th>
<th>Pfund</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER WHITE</td>
<td>Butter, maize, citrus, green</td>
<td>0 MM</td>
</tr>
<tr>
<td>EXTRA WHITE</td>
<td>Yellow, marigold, butterscotch, sunflower, daffodil, brass</td>
<td>8 MM</td>
</tr>
<tr>
<td>WHITE</td>
<td>Apricot, coral, salmon, peach, dusty, pumpkin, orange</td>
<td>17 MM</td>
</tr>
<tr>
<td>EXTRA LIGHT AMBER</td>
<td>Mango, clementine, flame, burn orange, auburn, brick</td>
<td>34 MM</td>
</tr>
<tr>
<td>LIGHT AMBER</td>
<td>Blood, maroon, claret, plum, mahogany, rawhide, carob, henna</td>
<td>50 MM</td>
</tr>
<tr>
<td>AMBER</td>
<td>Clove, cocoa, earth, mineral, hazelnut</td>
<td>85 MM</td>
</tr>
<tr>
<td>DARK AMBER</td>
<td></td>
<td>140 MM</td>
</tr>
</tbody>
</table>

Honey is extremely rich in color beyond the seven shades of ambers represented by the Pfund color chart. Our color chart also includes a spectrum of other colors you may observe in your honey samples.
Bees in the Holy Qura’n

A Drink of varying Hues ”Colors”???

Honey

Drink of Different Colors

- Bee venom
- Saliva

Royal jelly

- Drink of varying Hues ”Colors”???
Honey bee Worker
Body parts
Intern and Extern Anatomy

The Quran and the Science

Dr. Ali Alburaki
Anatomy of Honey bee Worker

Bees in the Holy Qur’a’n

Abdomen = Belly

1

2
1- Crop = Honey Stomach
Intern Anatomy of Honey bee Worker

Glands Location

- Head
- Thorax = Chest
- Abdomen = Belly

Anatomy of a Honey bee Worker

Dr. Ali Alburaki
Anatomy of Honey bee Worker

Glands Location

Head

Head’s Glands

1- Hypopharyngeal Glands
2- Salivary Glands
3- Mandibular Glands

Botoon = Glands = Cavities
Glands Location

Thorax

Thorax’s Glands

1-Salivary Glands

1-Ahrnard Glands
“Trail Pheromone”
Tarsus glands: footprint

Thorax=Chest

2 Glands
Abdomen’s Glands

1. wax glands
2. Acid gland (Venom Gland)
3. Alkalin gland
4. Nasanov Gland
5. Koschevnikov gland
Anatomy of Honey bee Worker

Glands Location

Abdomen

Abdomen’s Glands

The Quran and the Science

Abdomen = Belly

6 Glands

Dr. Ali Alburaki
Honeybee is more than a honey maker!!

All Bees Collect Nectars and Pollen

6 Products:
1- Honey
2- Bee wax
3- Royal jelly
4- Propolis
5- Pollen
6- Bee venom

The Importance of the Honey Bee

Pollination
100 times the value of all hive’s products value.
Honeybees products

Propolis

Honey

Royal jelly

Beewax
Honeybees products

Pollen

Bee venom

It is the only insect that produces food eaten by man!

FUN BEE FACT
#1
Bee is not only Honey!! Bee is a necessity, It’s a major element in the general ecosystem.
5th The Holy Qur’an and Science Conference
Nov 25th 2018, Toronto, Canada

Thank you

Dr. Ali ALBURAKI