



The BeeApp for beekeepers: a new tool for smart beekeeping

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Manhali



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Internet and usage of the app worldwide



- After the invention of the internet it became a must for the different activities and jobs
- Beekeeping gained from the usage of the internet on different levels.
- they use for:
 - Sharing info
 - Video conferences
 - Gather data, statistics, ..
 - ...



The Swiss experience

< Livestock

Bees

Research Projects

Bee Research Centre

Diseases

Colony losses

Bee products

Beekeeping in Switzerland

Bees and Agriculture

Bees and Society

Bees



Bees on a honey comb

The Swiss Bee Research Centre belongs to Agroscope in Liebefeld-Bern. The Swiss Bee Research Centre works in the frame on the federal agricultural research for the needs of Swiss beekeepers. It supplies scientific and technical know-how for the benefit of beekeepers and of all concerned.



الجمعية
العربية

URL for direct access

www.apis.admin.ch

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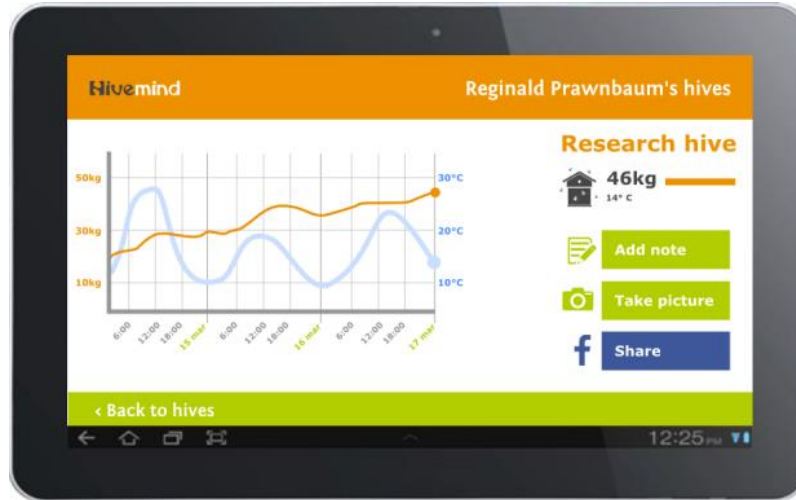


الجمعية العربية لتربية النحل
Arab Beekeeping Association



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مؤتمر الجمعية العربية لتربية النحل الأول
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Beelebanon.org



In 2010 a blog was created in the favor of the beekeeping sector in Lebanon

Because bees and beekeeper deserve

To Bee or not to Bee



The Plan Bee Statistics ORGANIC BEEKEEPING من كتب Books Bees Articles About

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Beekeepers and internet in Leb.

Like other beekeepers Lebanese beekeepers started using the internet and later on smart phones and related tools for personal and professional usage.

- Forums.
- Facebook Group.
- Whatsapp groups.



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Focus groups & Questionnaires

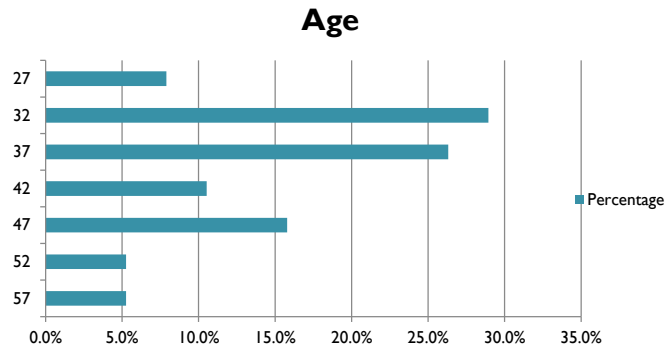
- Focus groups
- Online survey shared through the existing channels.



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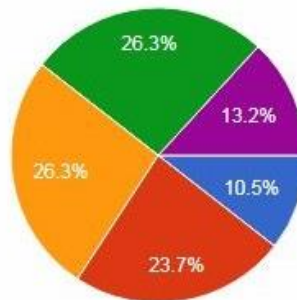
Category of age

- Between 27 and 57 years old.



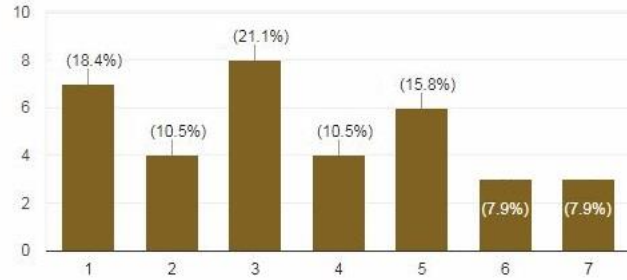
I am practicing beekeeping since

- < 3 years
- 3 < X < 5 years
- 6 < X < 10
- 11 < X < 20
- > 20 years



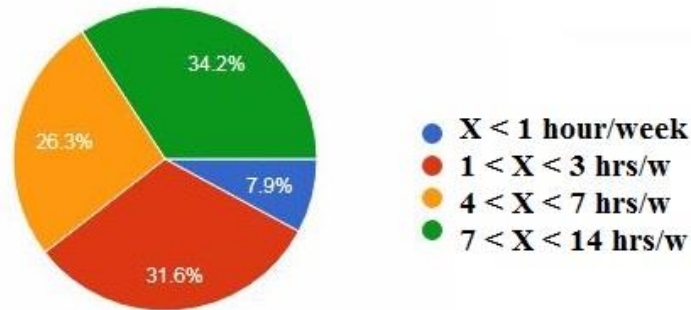
The majority started using the smart phones five years ago

N of years, I am using smart phones for beekeeping



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Duration of time I am using the internet and smart phones for the beekeeping



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I use mobile data on my phone



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Preferred site or App



1	Whatsapp
2	Facebook
3	Google
4	Forums
5	Specific Site

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Language used

1. Arabic
2. Arabic with Latin characters
3. English



Purpose of the usage



	☹☹	☹		☺	☺☺
Exhibitions	2.6%	2.6%	23.7%	39.5%	31.6%
Communication with the beekeepers			7.9%	36.8%	55.3%
Communication with experts			13.2%	36.8%	50.0%
Search			10.5%	23.7%	65.8%
Be up to date			7.9%	26.3%	65.8%



The optimum App



1. In Arabic
2. Free
3. Can play the role of the calendar for the apiary
4. Ensure the privacy
5. Easy to use and to connect with people
6. Has a Good archiving system
7. Help recognizing the nectiferous plants – diseases ..
8. Has weather extended weather forecast
9. Can be easily muted
10. Doesn't consume much data



Manhali

منحلي





My visits (1)



- Date (calendar)
 - Hive number
 - Number of frames (*honey.*brood.*empty)
 - Queen age
 - Queen breed
 - Diseases symptoms & remarks



My visits (2)



- Date (calendar)
 - Diseases symptoms & remarks
 - To do tasks - plan my next visit by admin
 - Feeding (by selection syrup 1:1, 1:2,2:1, candy)(Qty)
 - Treatments
 - Harvest (by selection honey, pollen, propolis, venom)(Qty)
 - Report all the above per hive & per apiary



Manhali ABOUT

2017 Baabda, Lebanon

Joseph Nasr
Bhamdoun
11 February 1995

Joseph Nasr
Bhamdoun
11 February 1995

+

Melissa ABOUT

2017 Baabda, Lebanon

Info about the App
© 2018

Joseph Nasr
Bhamdoun
11 February 1995



- The app permits to the beekeepers to interact with each other, search for info, and add valuable info.
- The user can share at any time,
 - the location of the apiary (private),
 - photos of the apiary,
 - photos for possible problems and/or disease occurring in his apiary.

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- The Admin can publish on a seasonal basis, the map of Lebanon showing the distribution of the apiaries in the country, yearly honey production, occurrence of diseases, timing of transhumance, ... and can eventually in a later stage predict the figures based on last years' numbers and variables.

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- A major role is asked from this App shall be the first, fast and reliable source of statistics and figures the beekeeping sector. These figures, ready on time, can be used, when needed, by the different stakeholders of the beekeeping sector.



- Manhali is to be applied and tested in Lebanon and can easily duplicated all over the Arabic countries



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Thank you

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