

# IDM Report Draft

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Infectious Disease Management Survey Report

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IDM Report Draft

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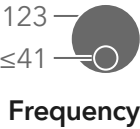
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#5 Select the country in which you primarily house your bees:



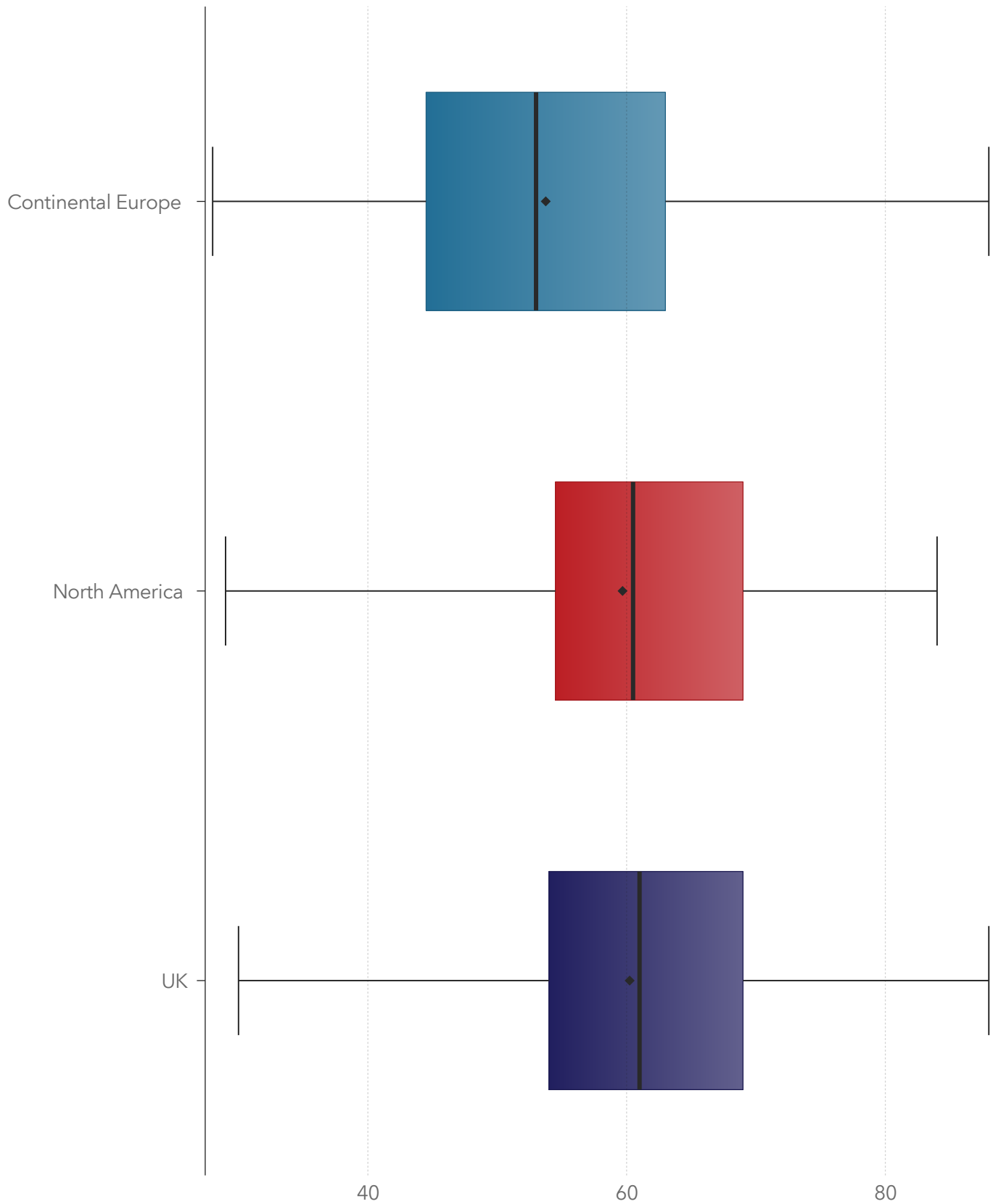
Country Map





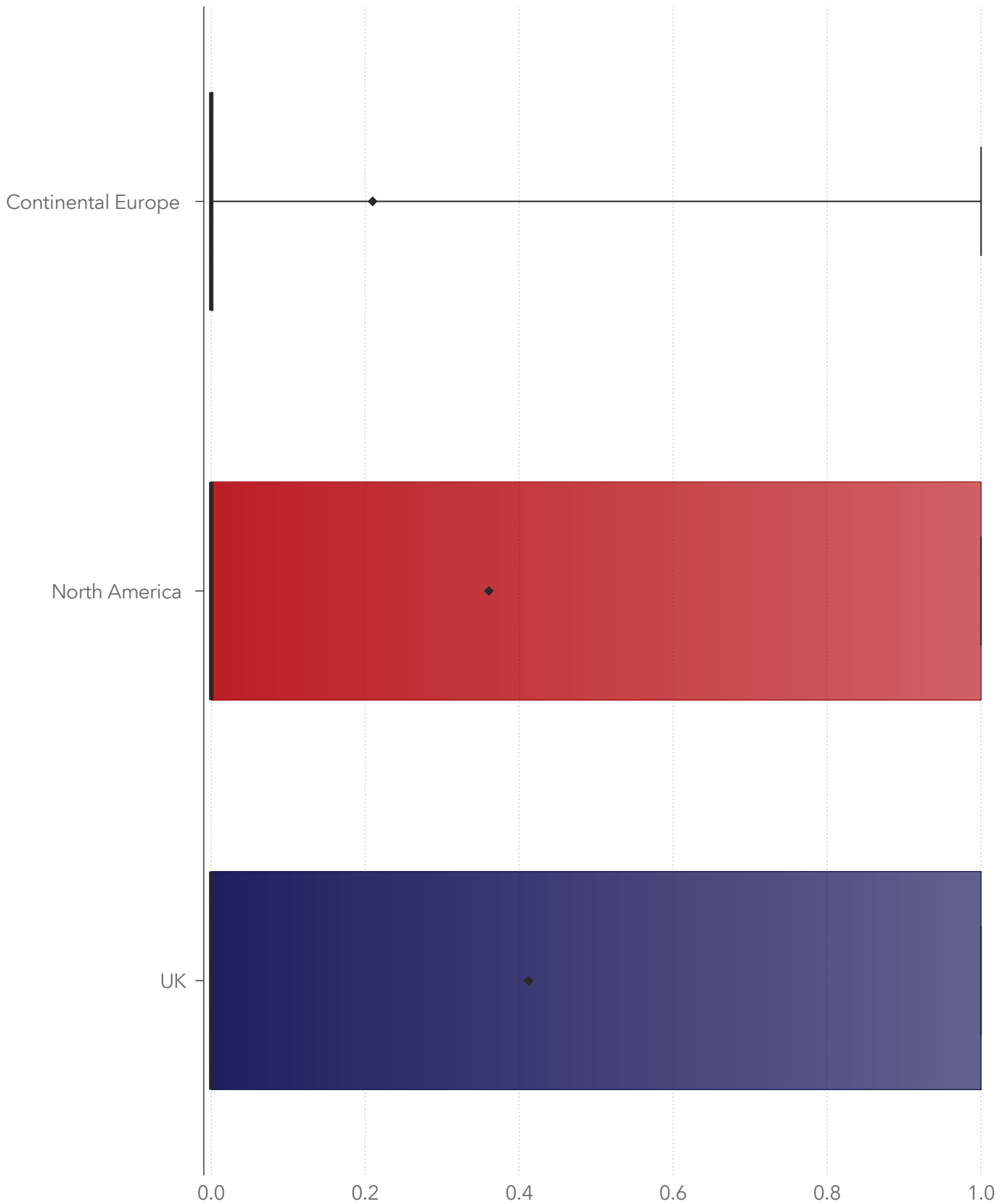
## #7 Year you were born (calculated as Age)

Age



## #8 Mark your gender

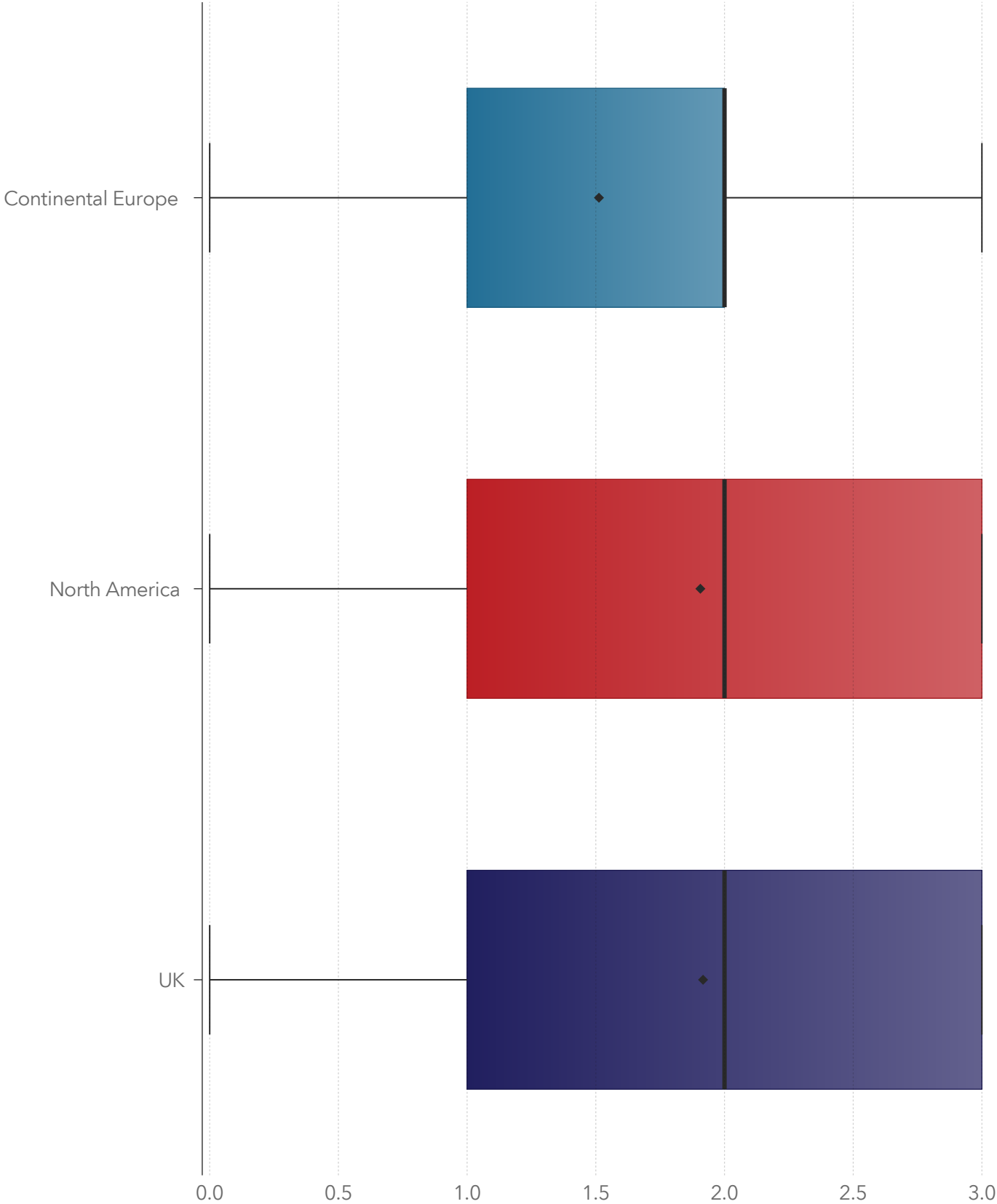
Gender



#9 Mark your highest education level



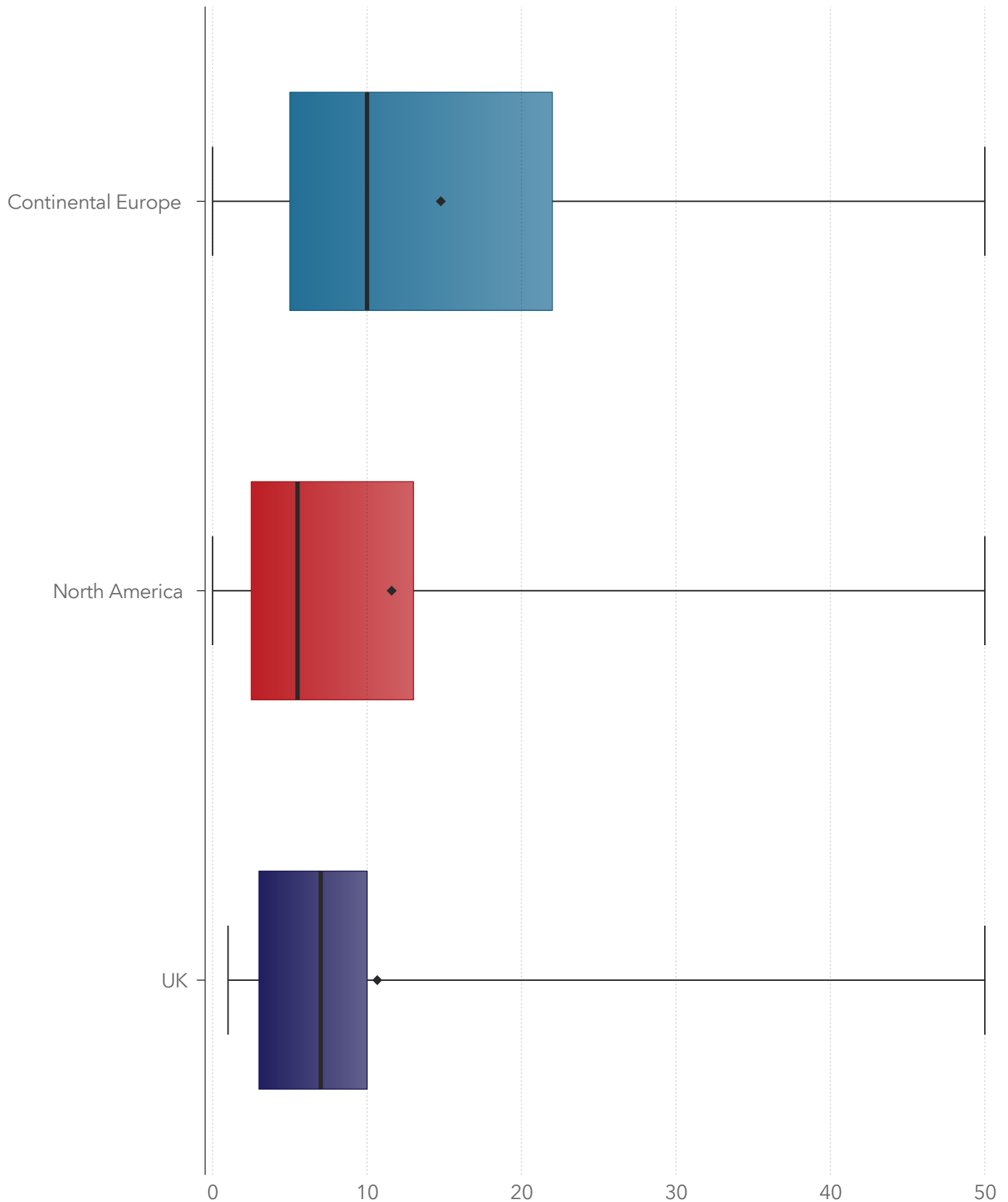
Education



## #10 How many years have you been a beekeeper?



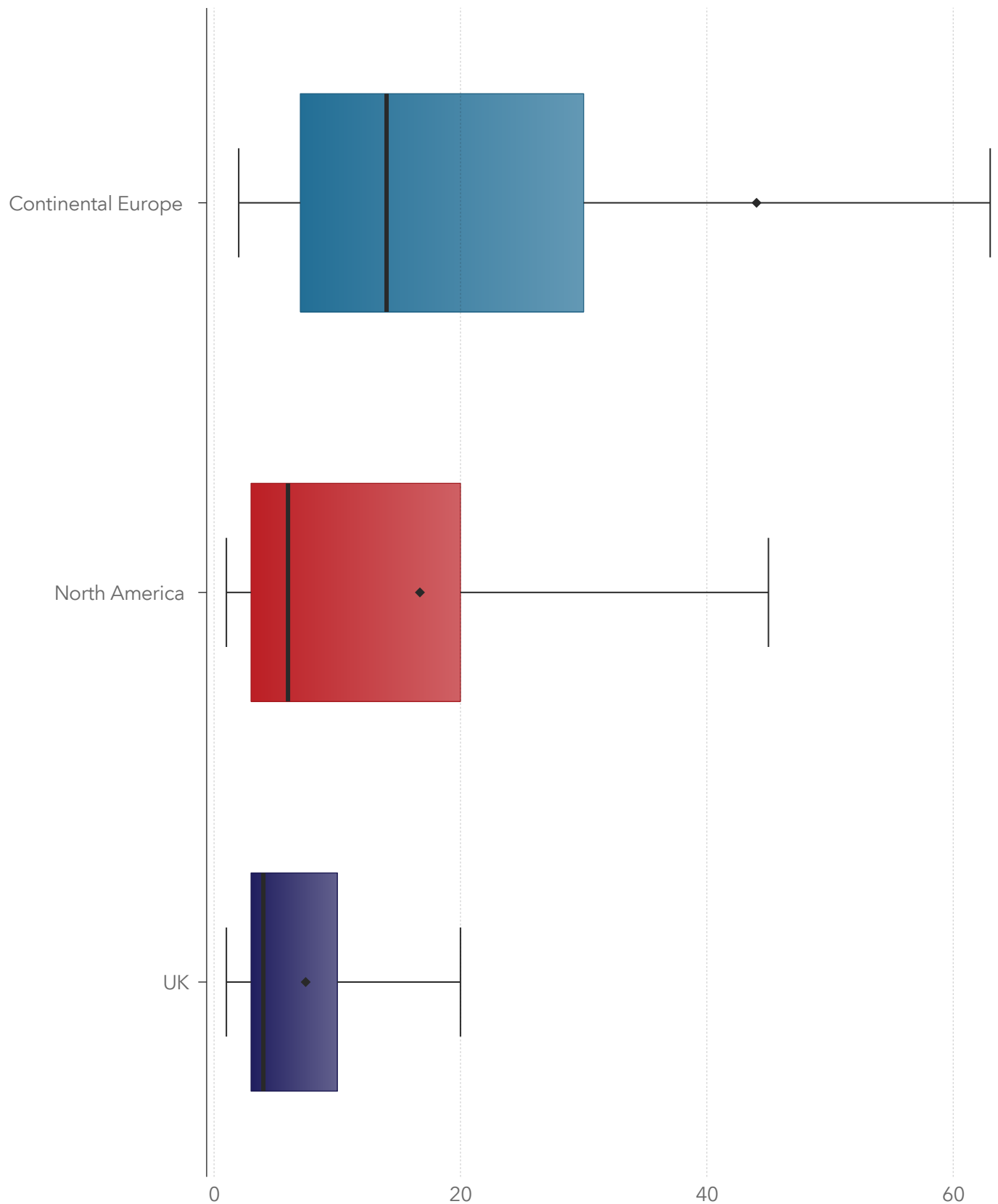
Years of Experience Beekeeping



## #11 Estimate the number of hives you are currently managing:

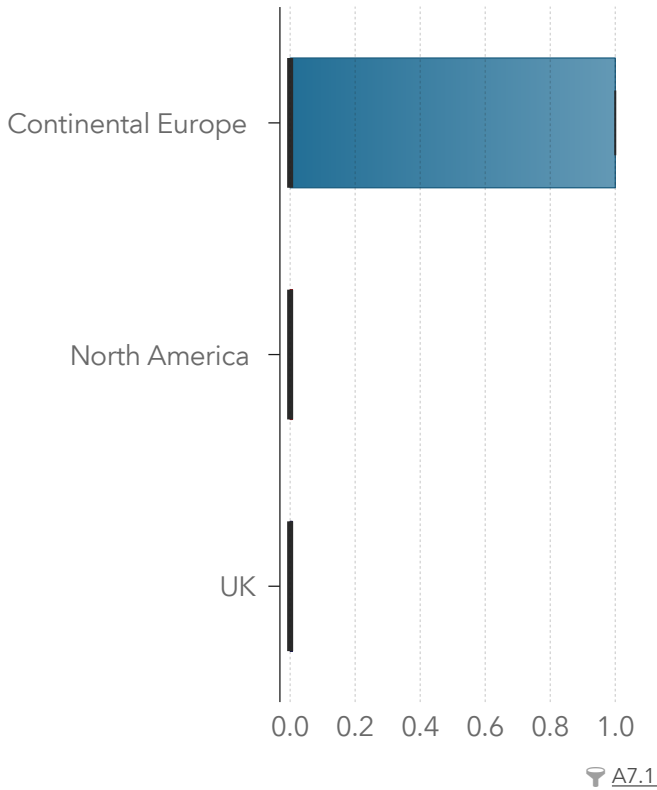


Estimated Number of Hives

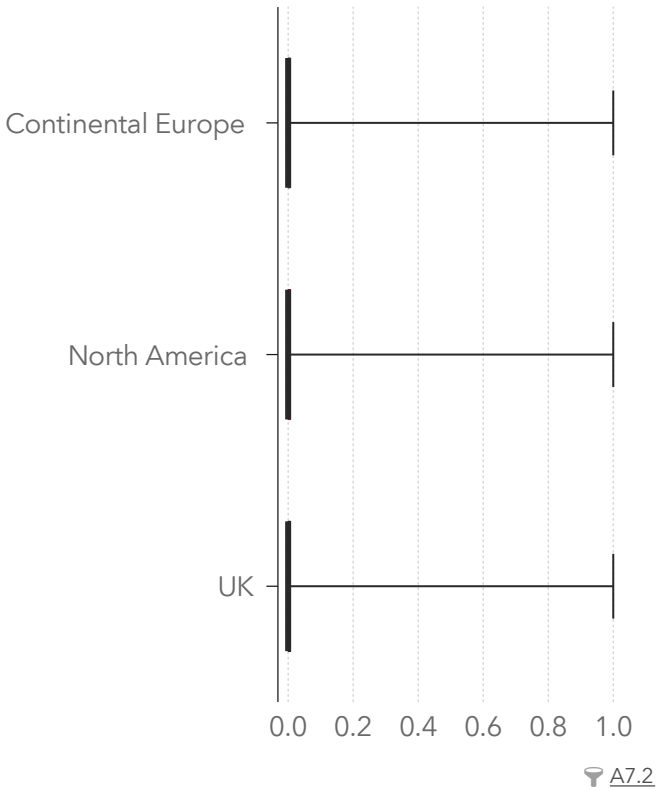


#12 What type of hive are you using?

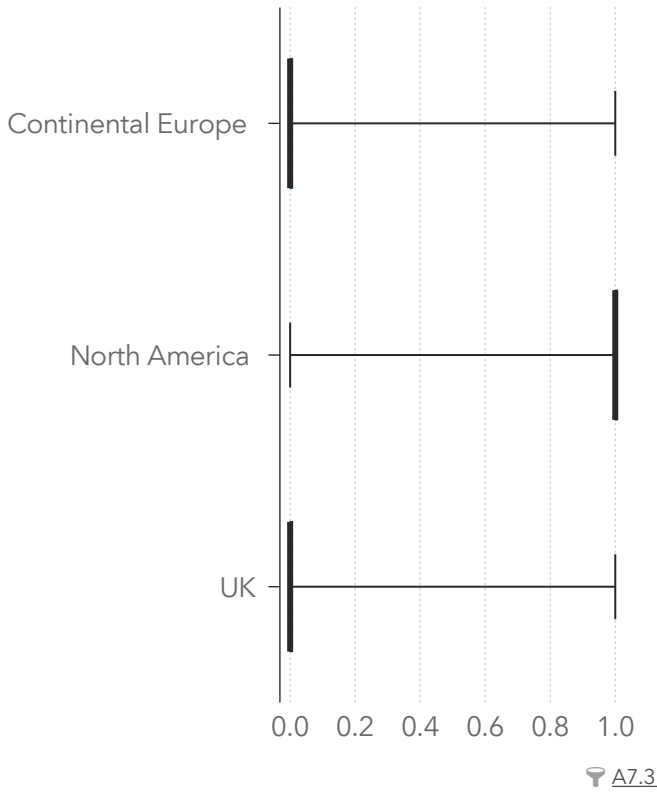
Dadant Blatt



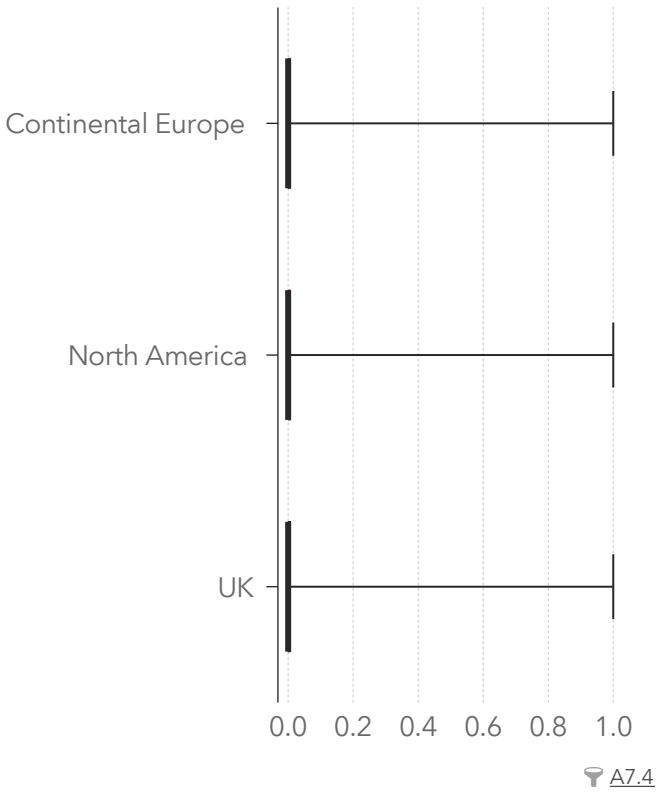
Warre Hive



Langstroth



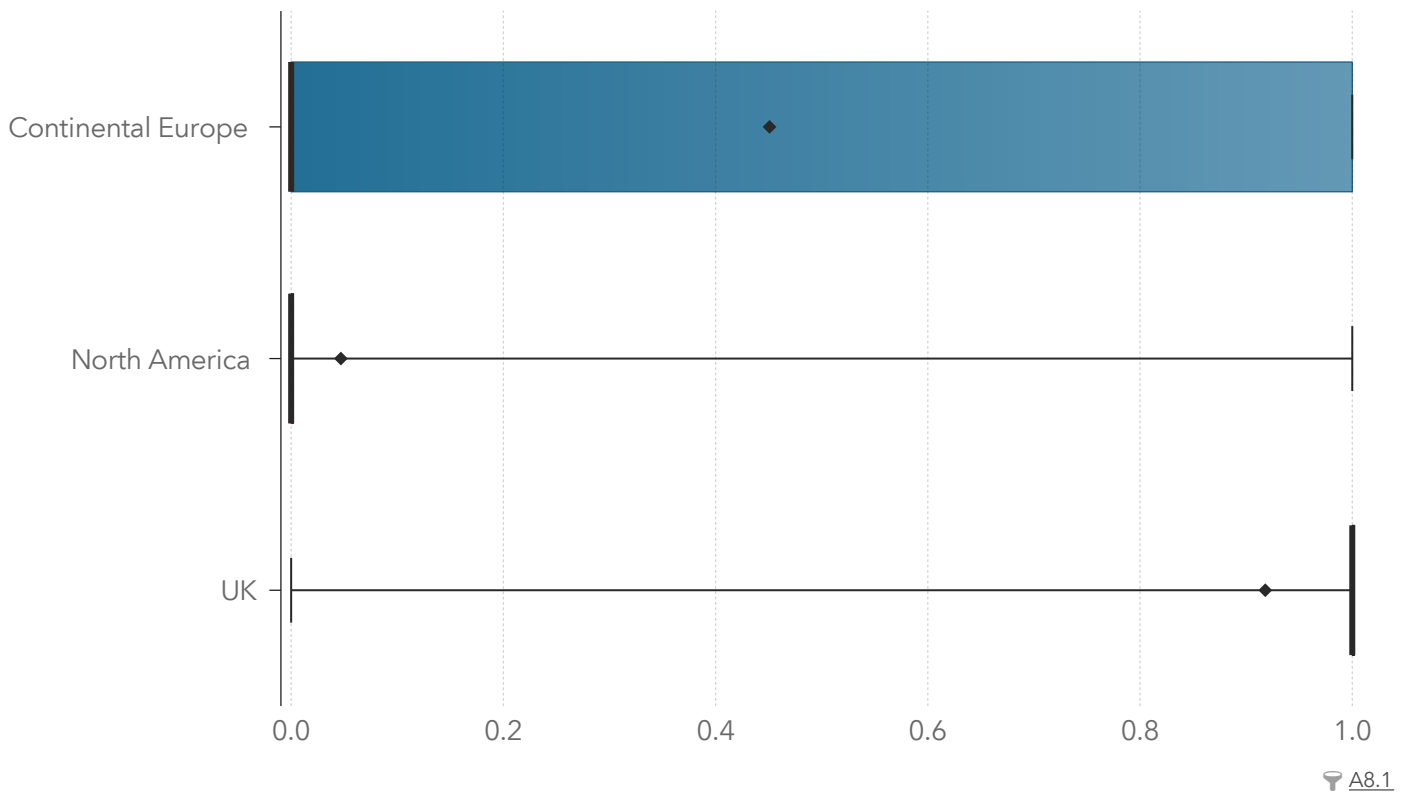
Top-Bar Hive



## #12 Hive Types: Others



Other(s), please explain



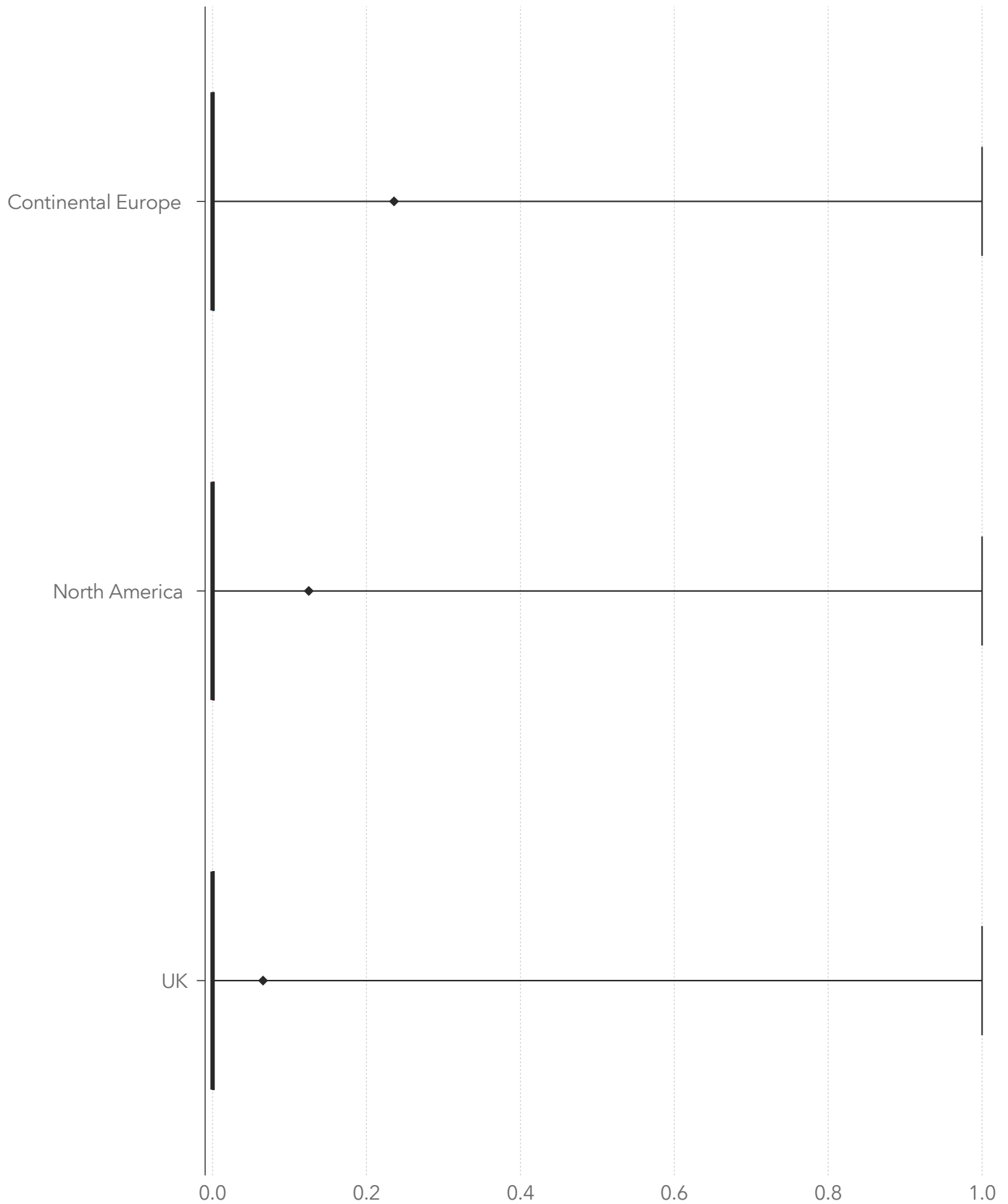
type_hives_text	Frequency
10 * 12	1
12 x 10 opstabling	1
12-10	2
12-10 opstabling	1
12"*10"	1
12/10	2
12x10	2
12x10 opstabling	1
12x10 styropor	1
14*12 and standard National	1
AZ	1
AZ Hive	1
british national	1
British national	2
British National	9
British National hive	1

A8.2

# #13 Do you consider yourself a professional beekeeper?



## Professional Beekeepers

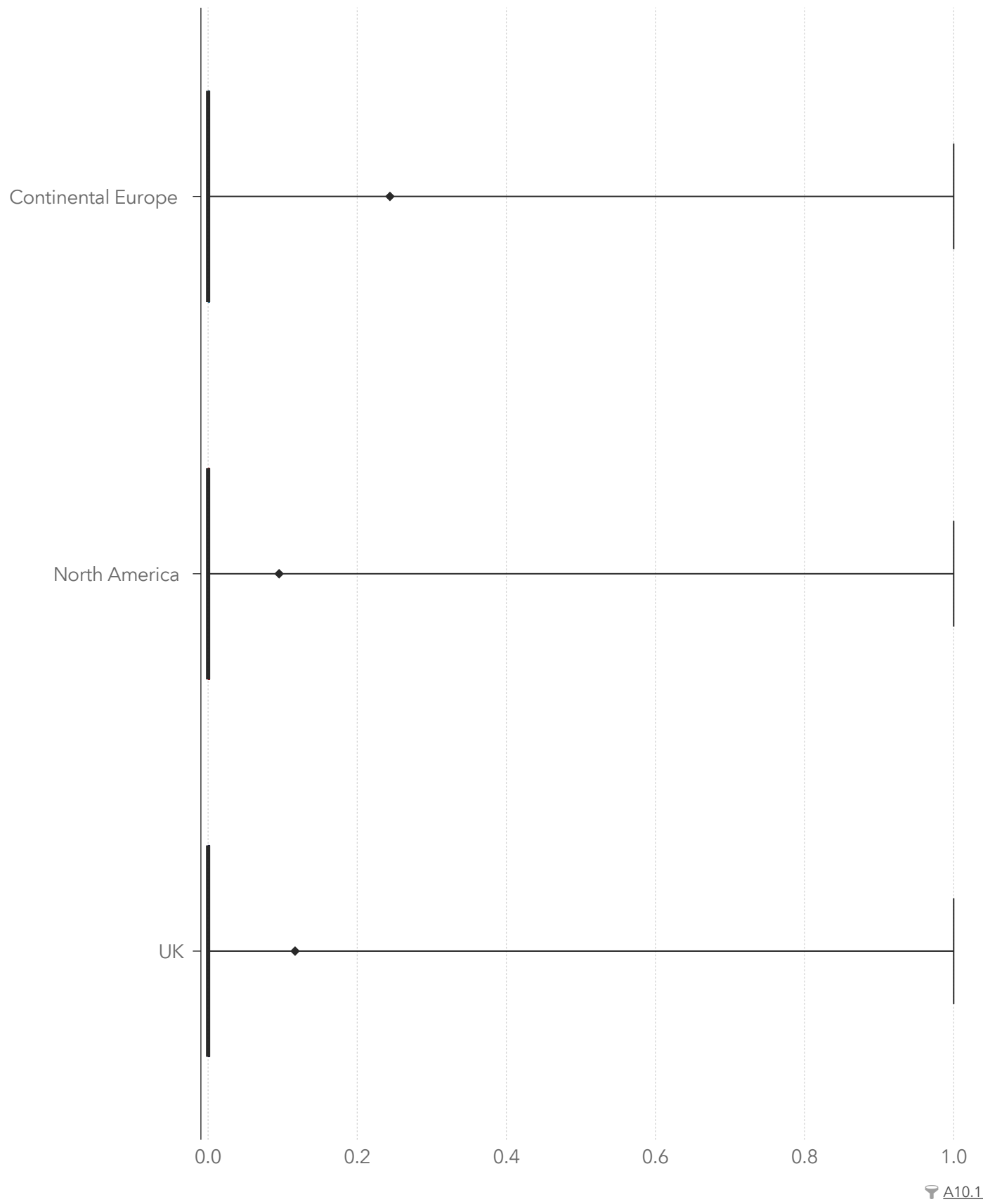




#14 Do you move your bees at all throughout the year?



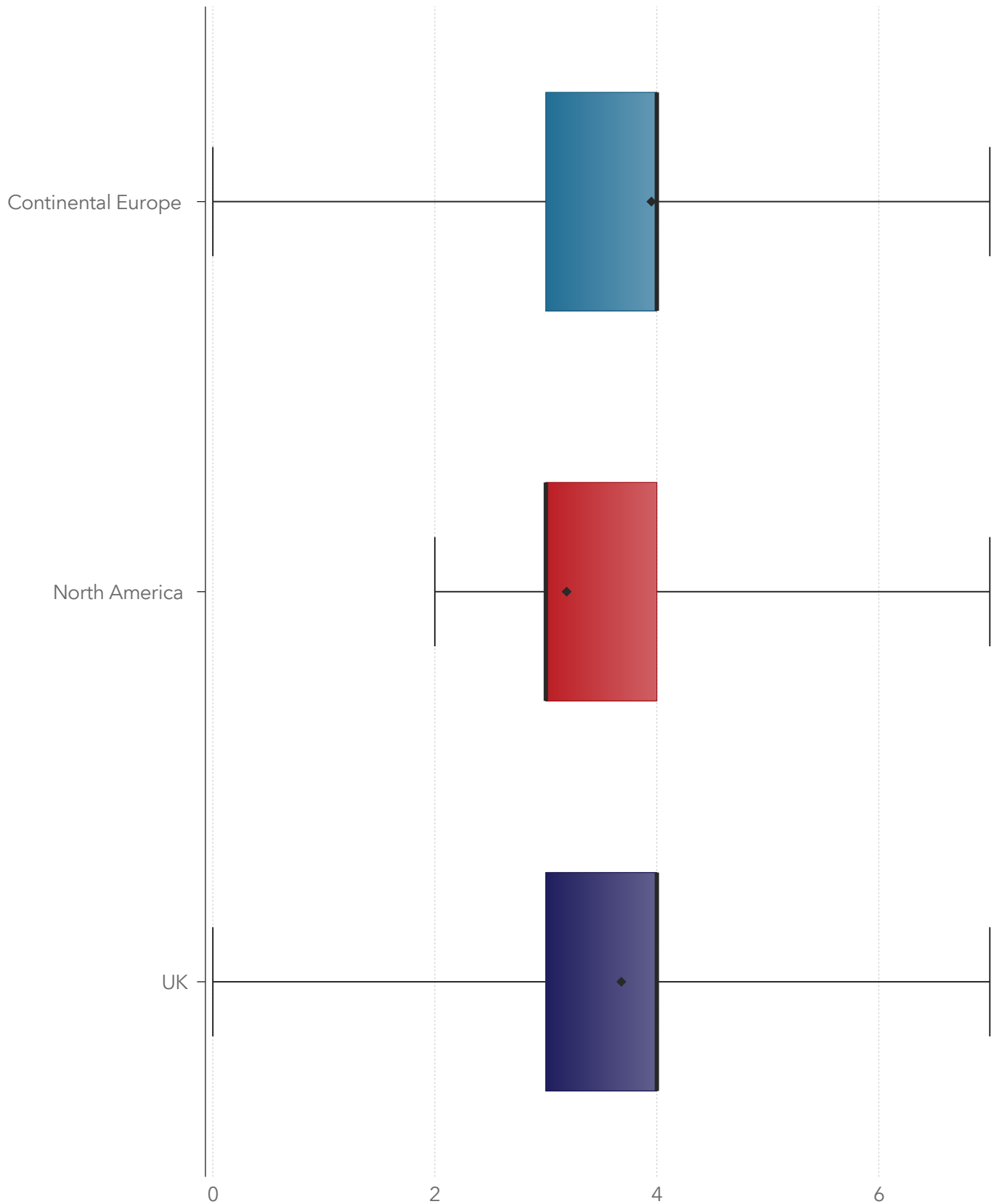
Bee movement



## #15 How often do you inspect your hives during the active season:



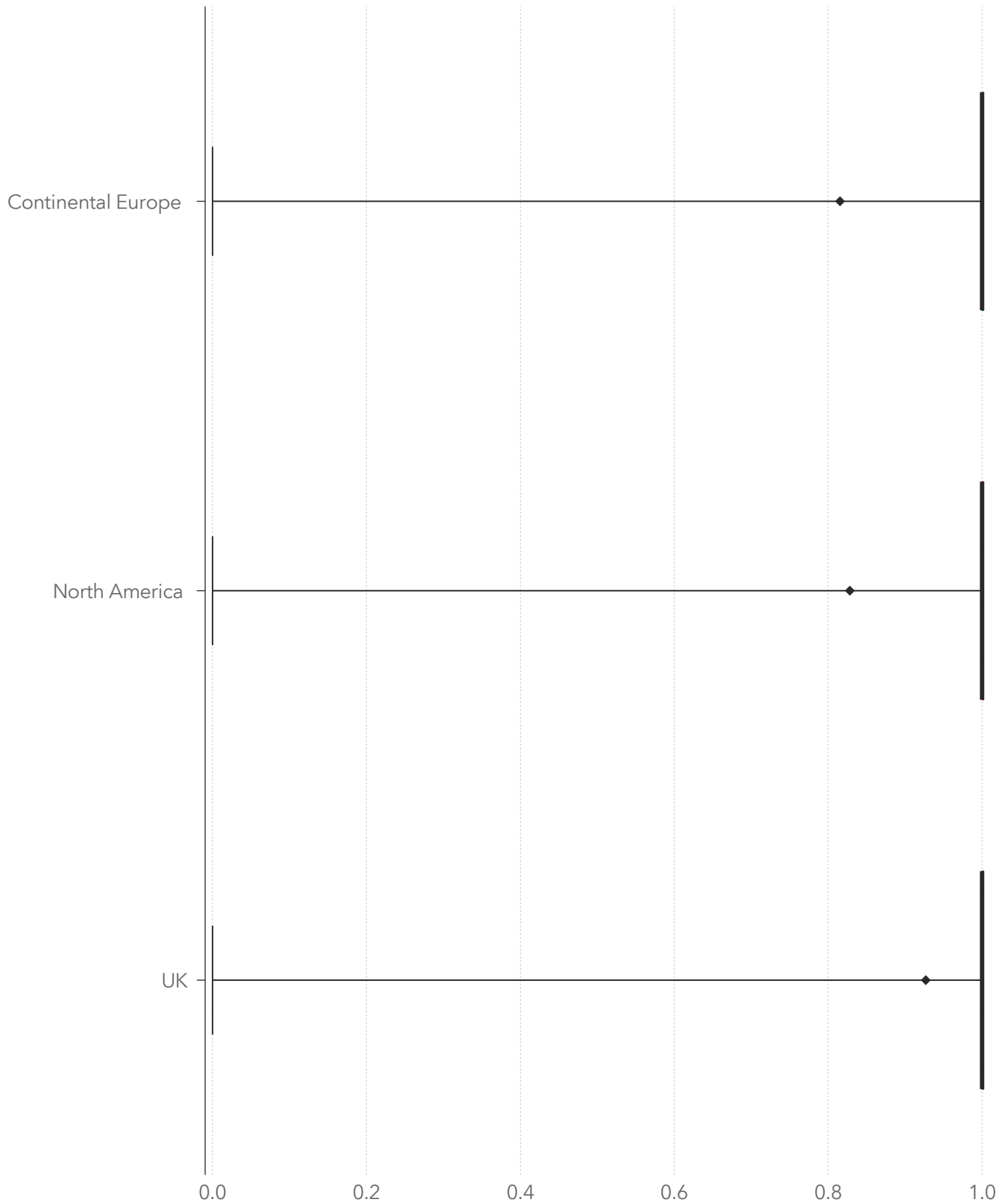
### Frequency of Hive Inspections



## #16 Which of the following is an example of Nosema?



Nosema

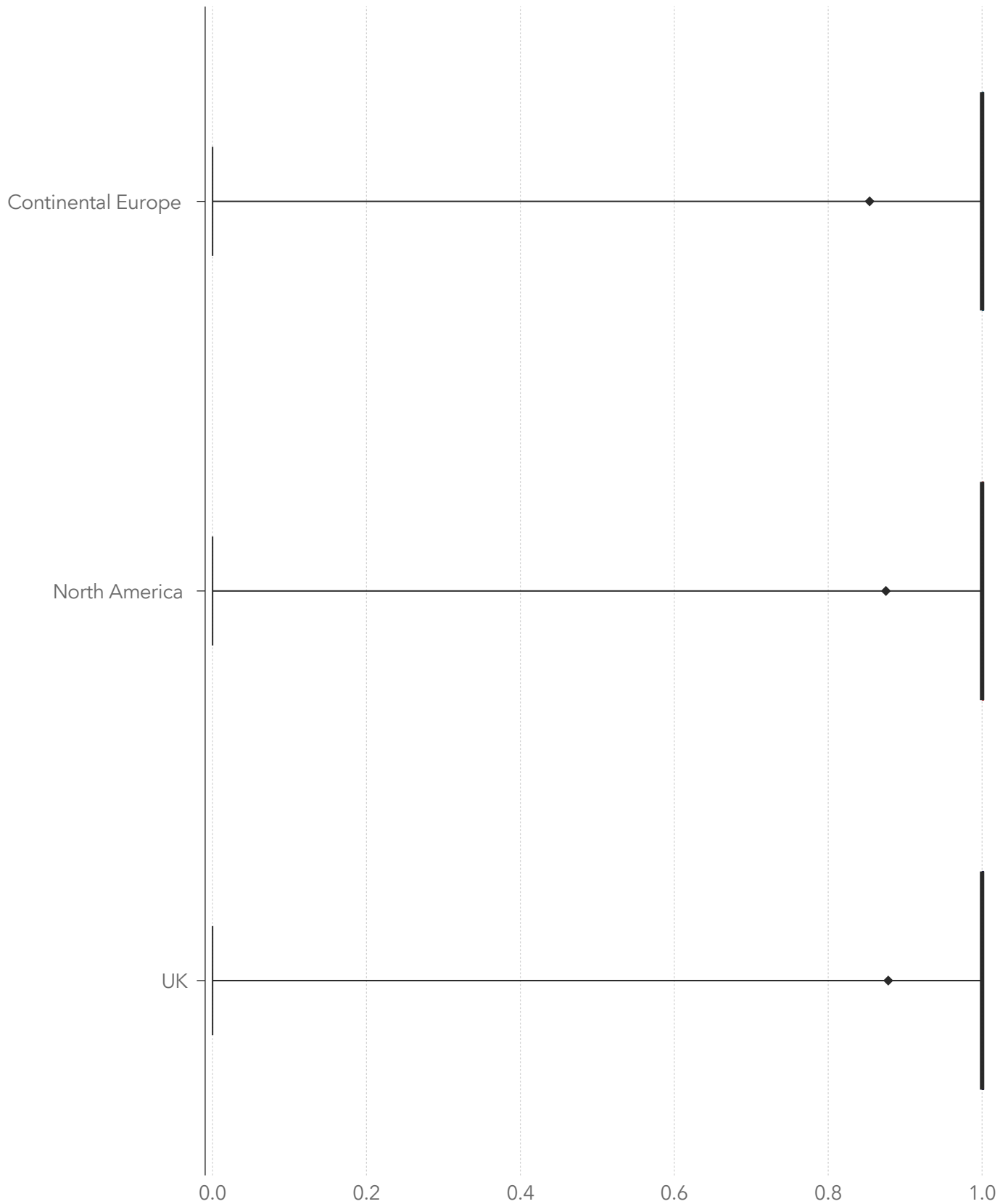


A12.1

## #16 Which of the following is an example of American Foulbrood?



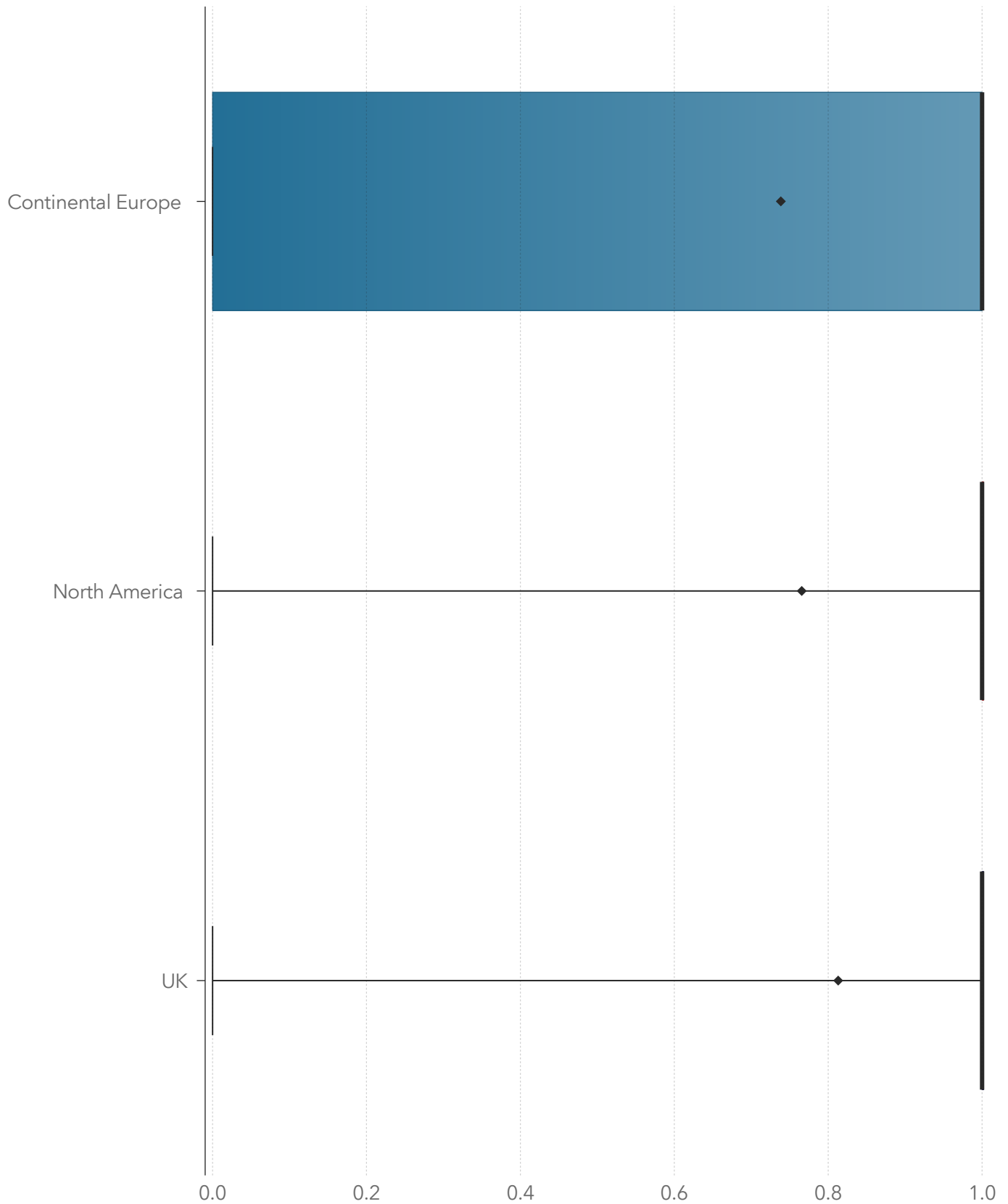
### American Foulbrood



## #16 Which of the following is an example of European Foulbrood?

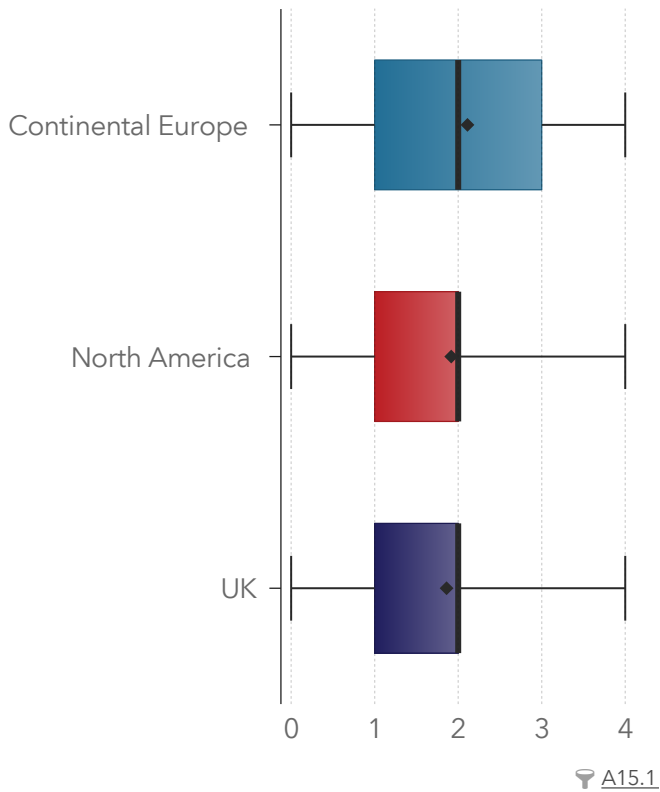


### European Foulbrood

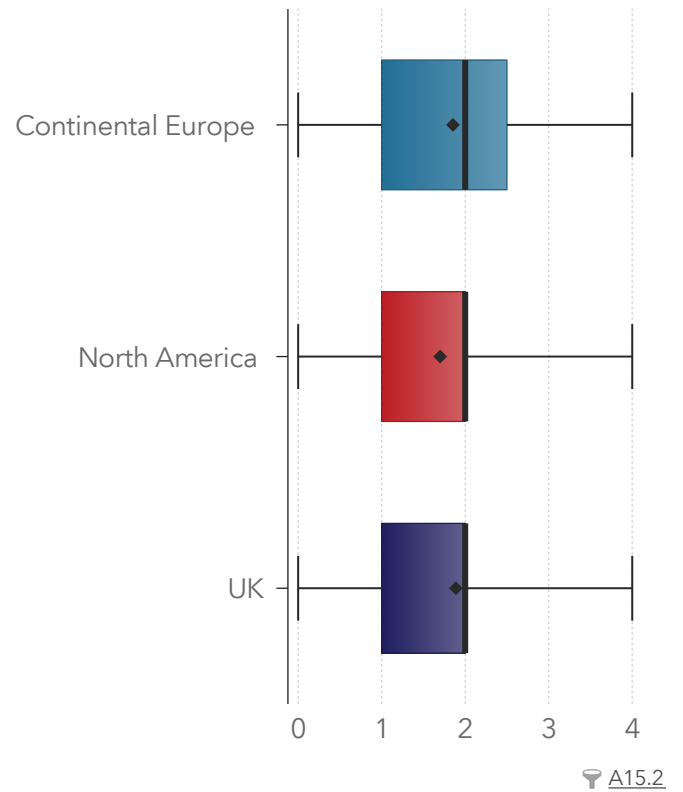


## #19 How knowledgeable are you in the following bee diseases:

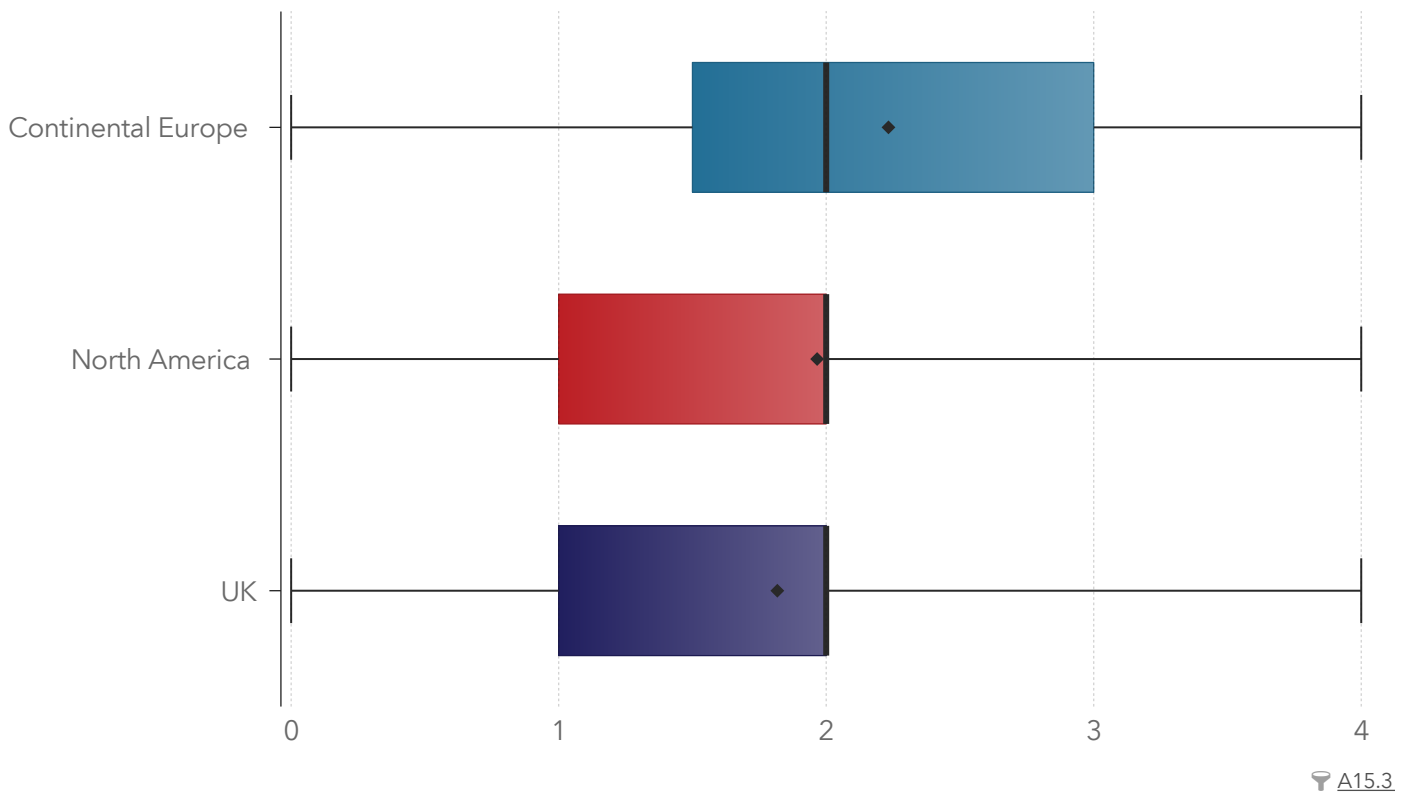
### Nosema



### European Foulbrood

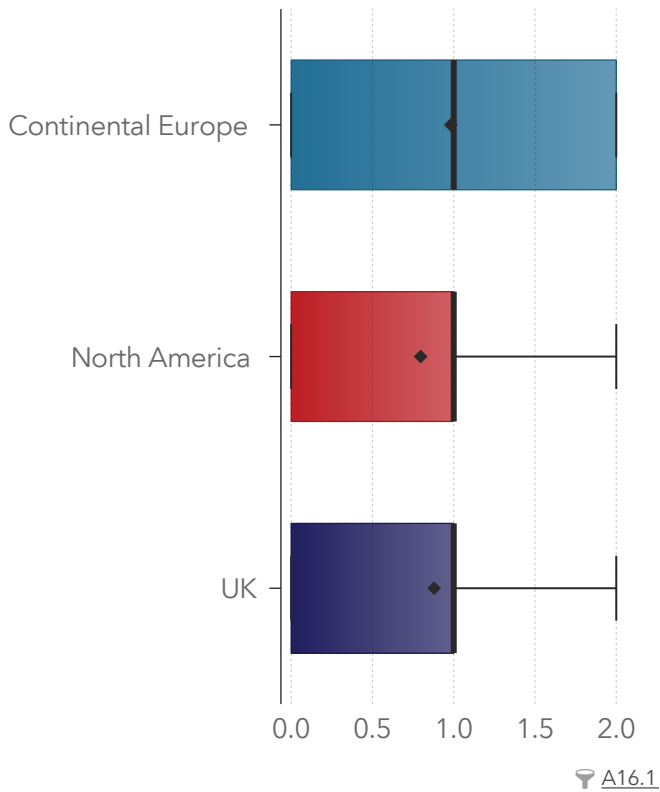


### American Foulbrood

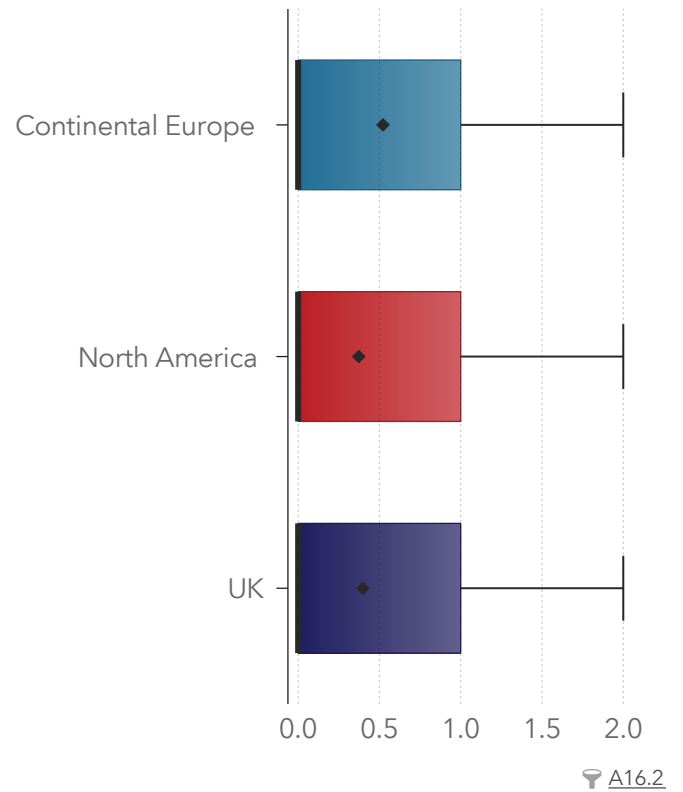


## #20 Please tell us your experience in recognizing the following diseases:

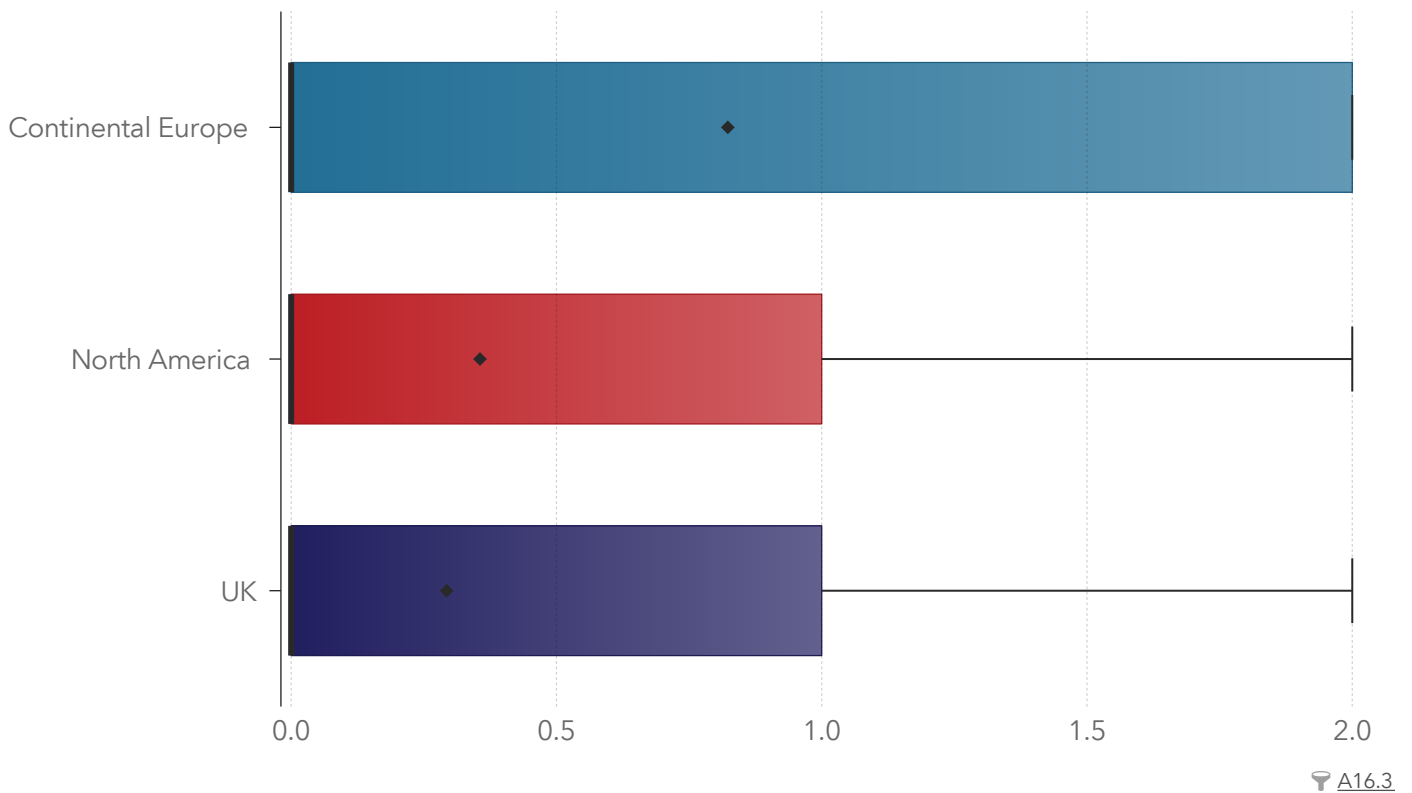
### Nosema



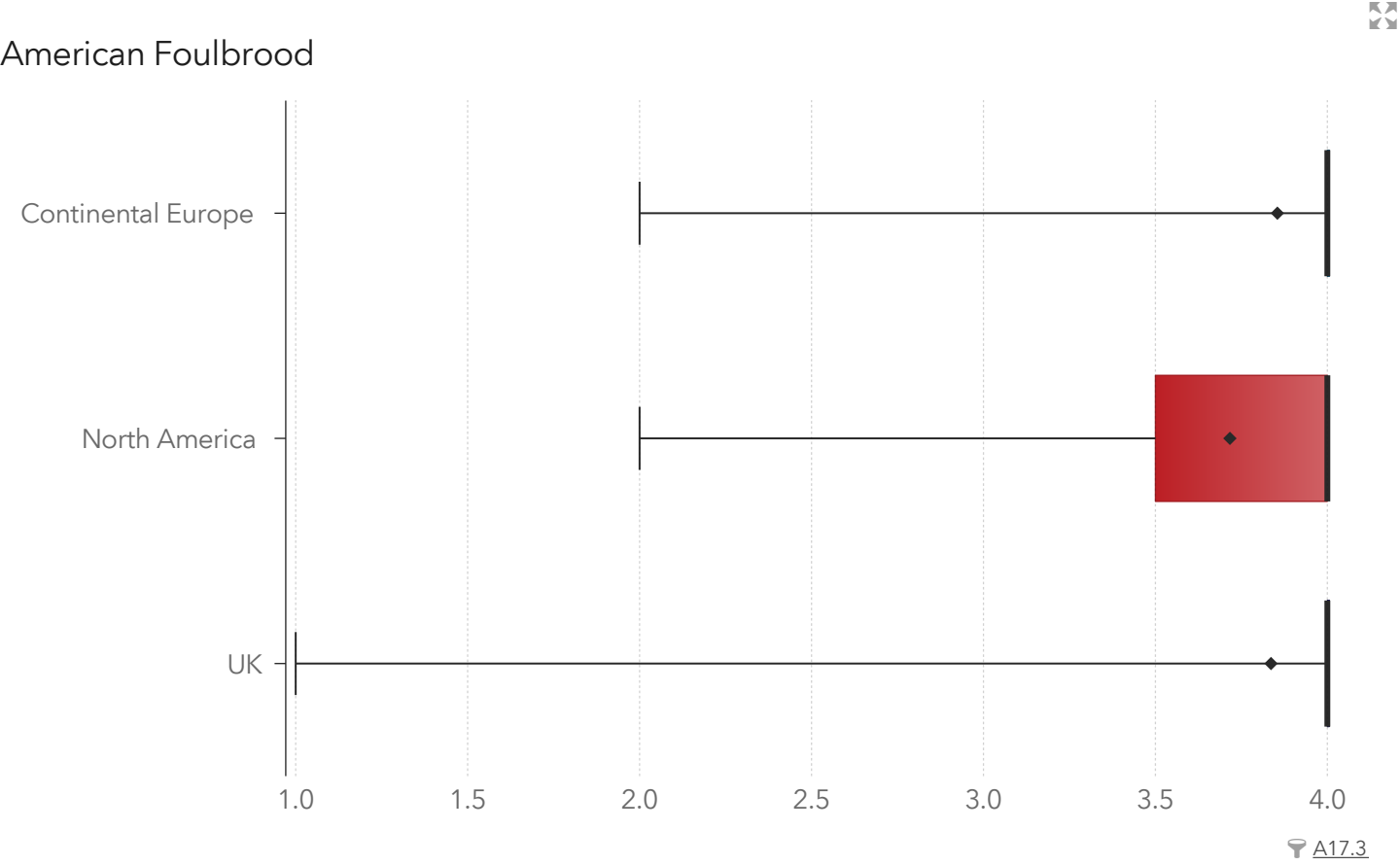
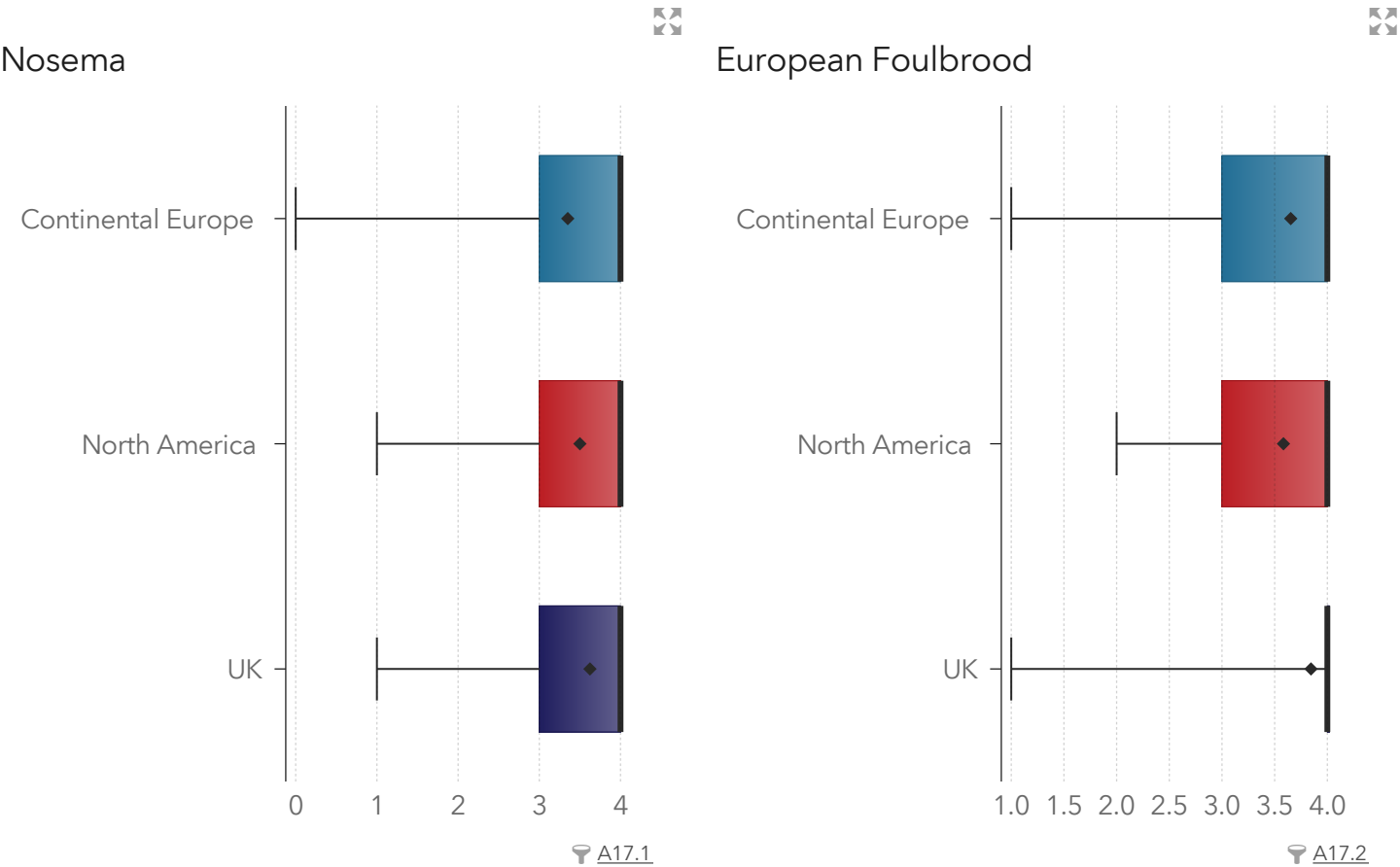
### European Foulbrood



### American Foulbrood



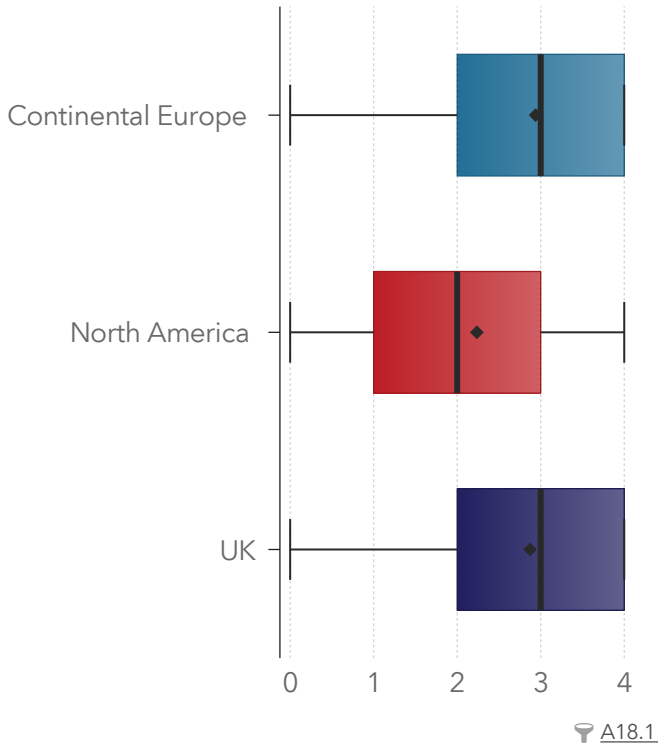
#21 How useful is it to be able to recognize the signs of each of the following bee diseases:



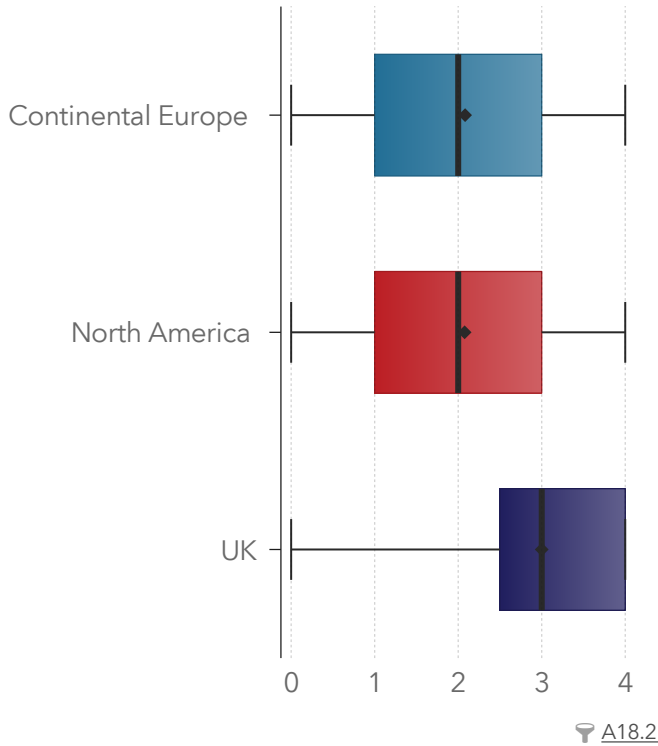


#23 Please indicate how useful each of the following practices are in preventing/managing...

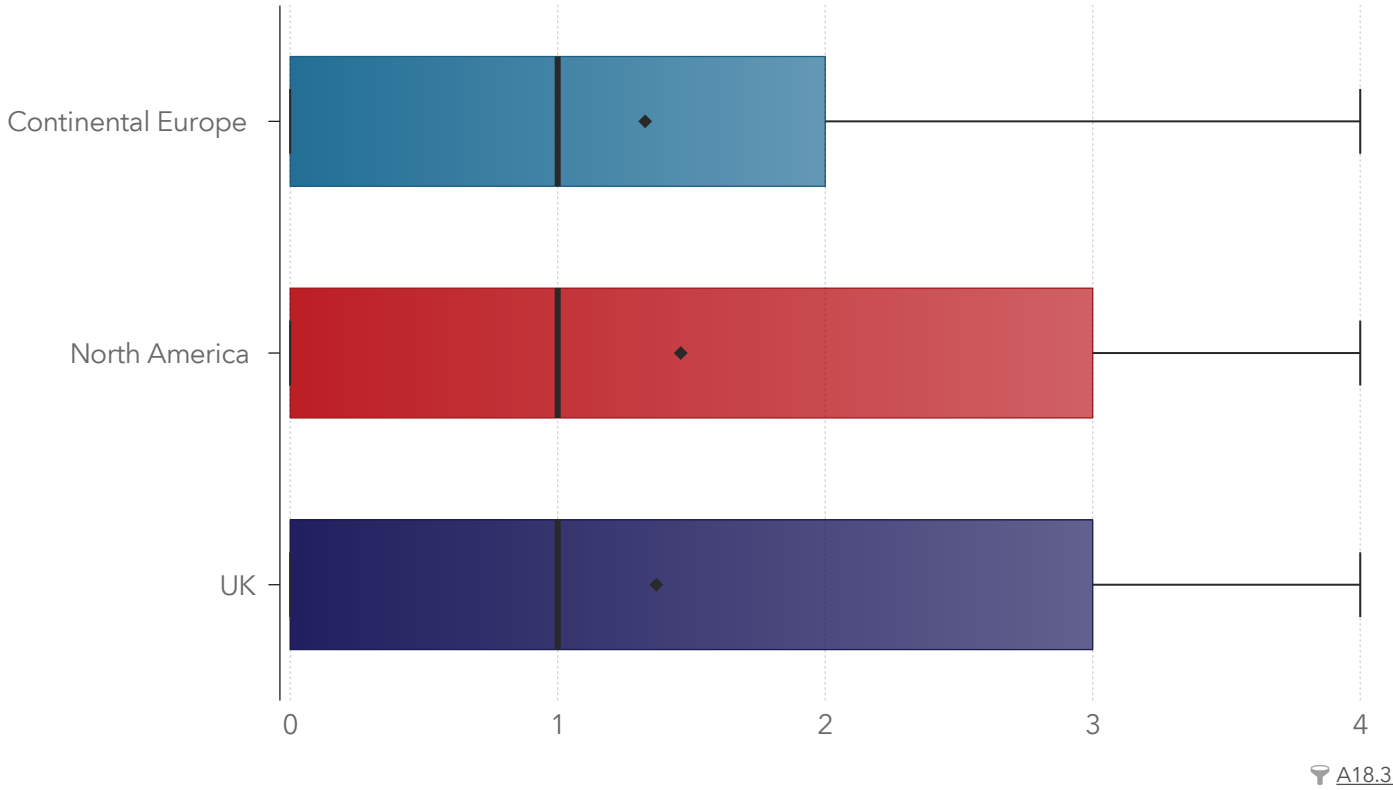
Removing combs that show signs of dysentery



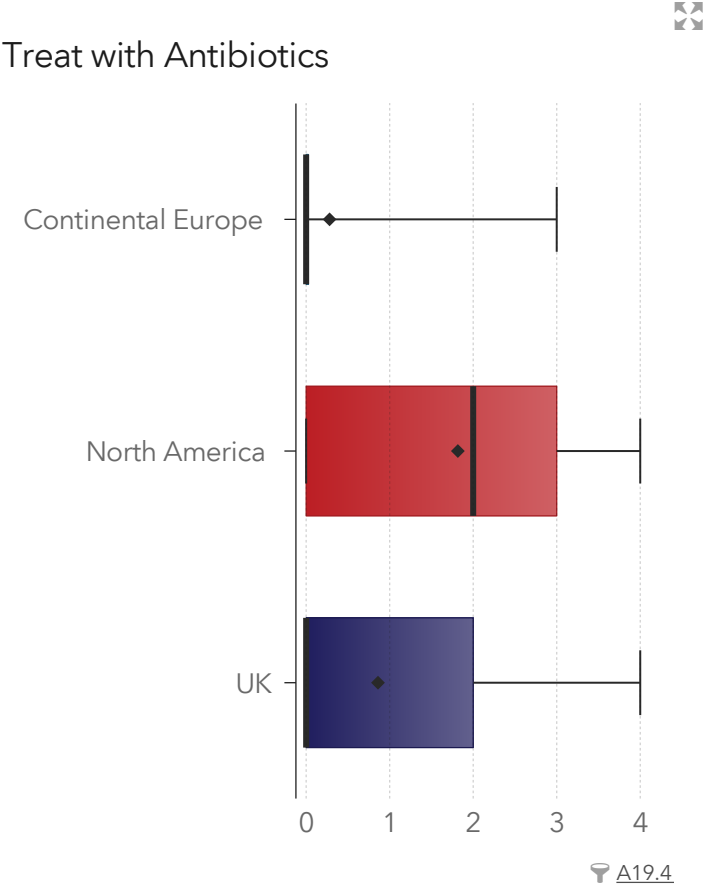
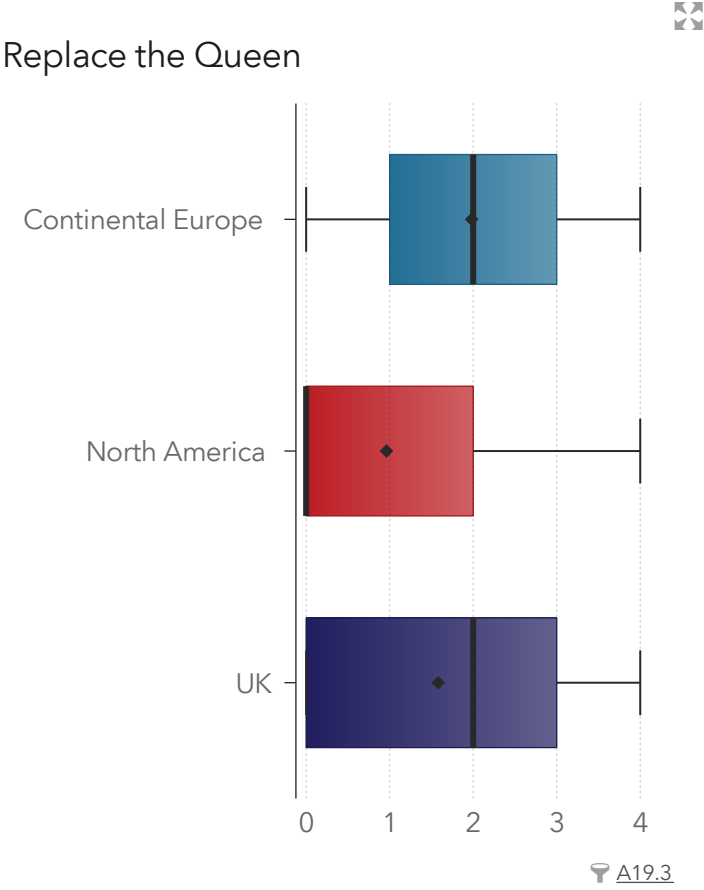
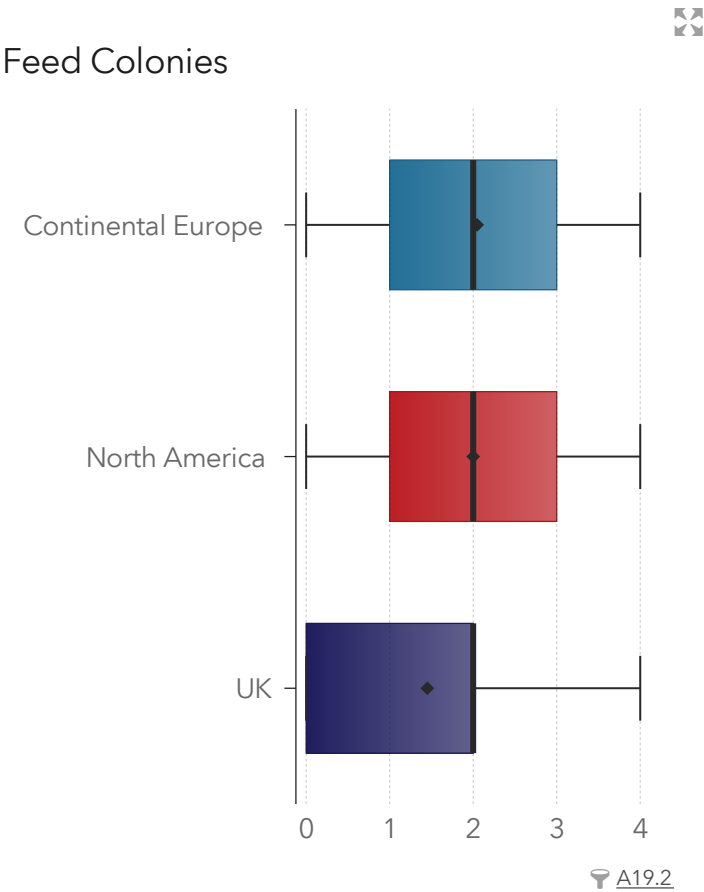
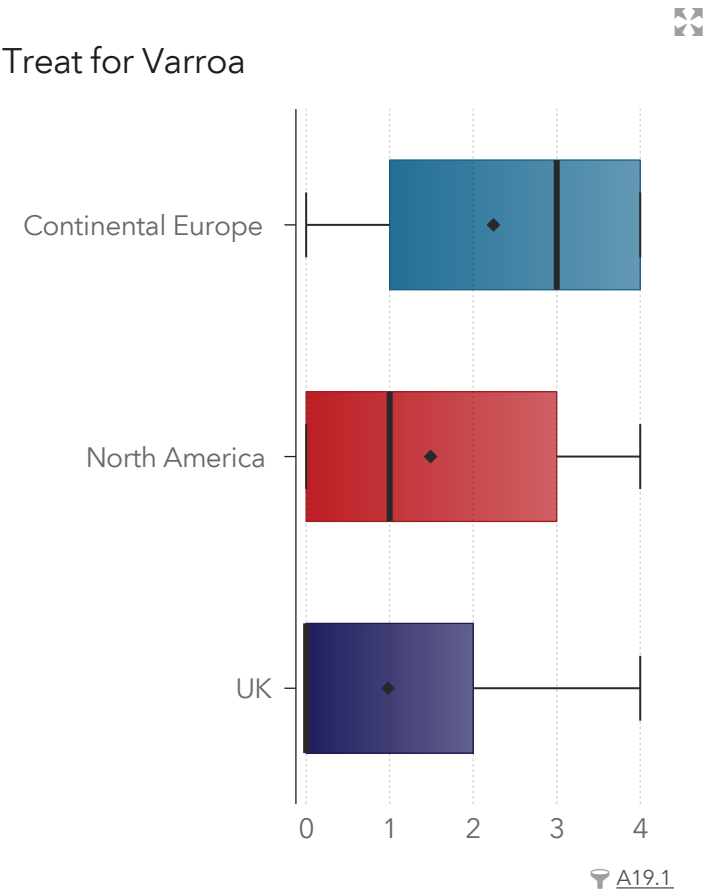
Take samples of forager bees for diagnostics



Take samples of hive debris for diagnostics

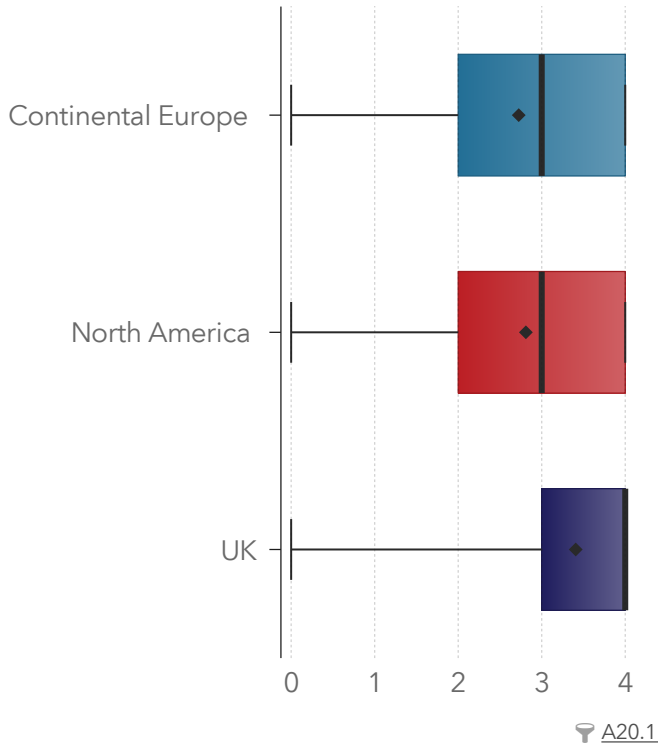


#23 Please indicate how useful each of the following practices are in preventing/managing...

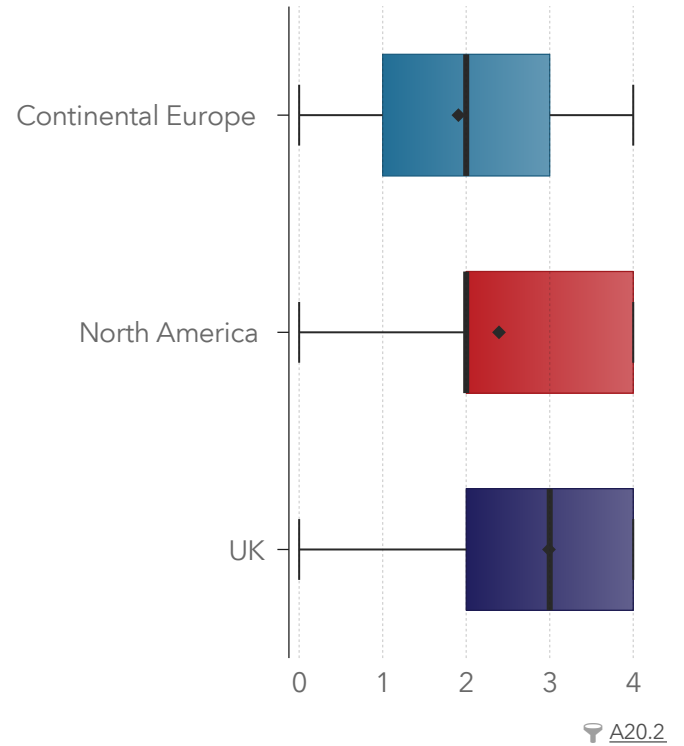


## #24 Please indicate how feasible each of the following could be in your beekeeping activit...

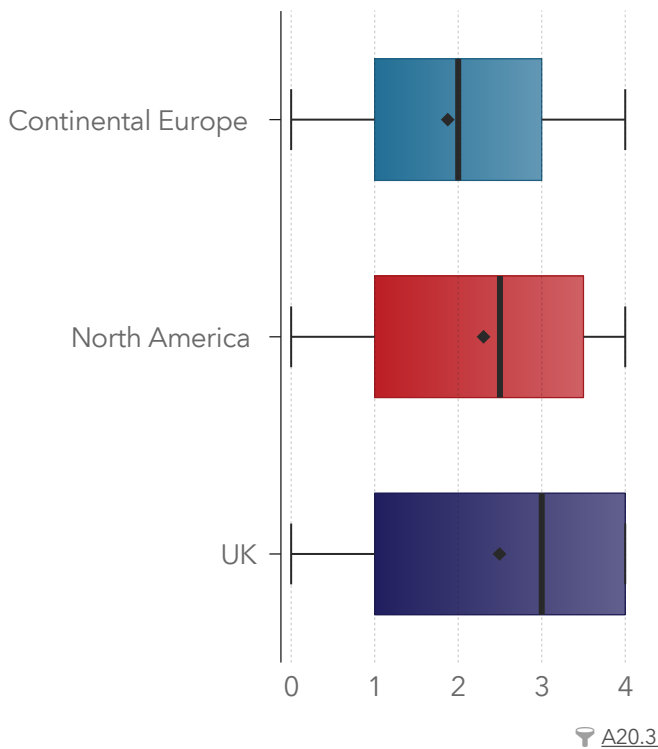
Removing combs that show signs of dysentery



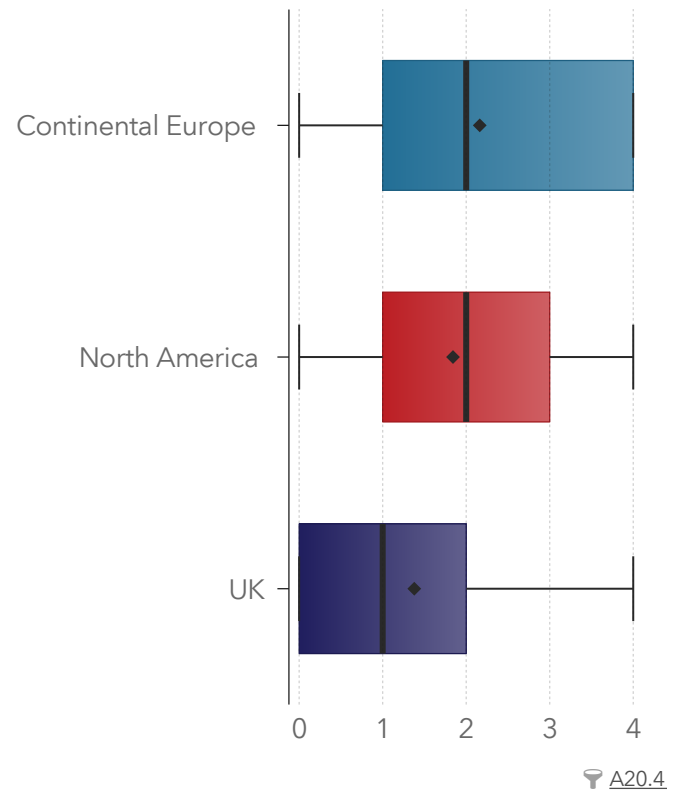
Take samples of forager bees for diagnostics



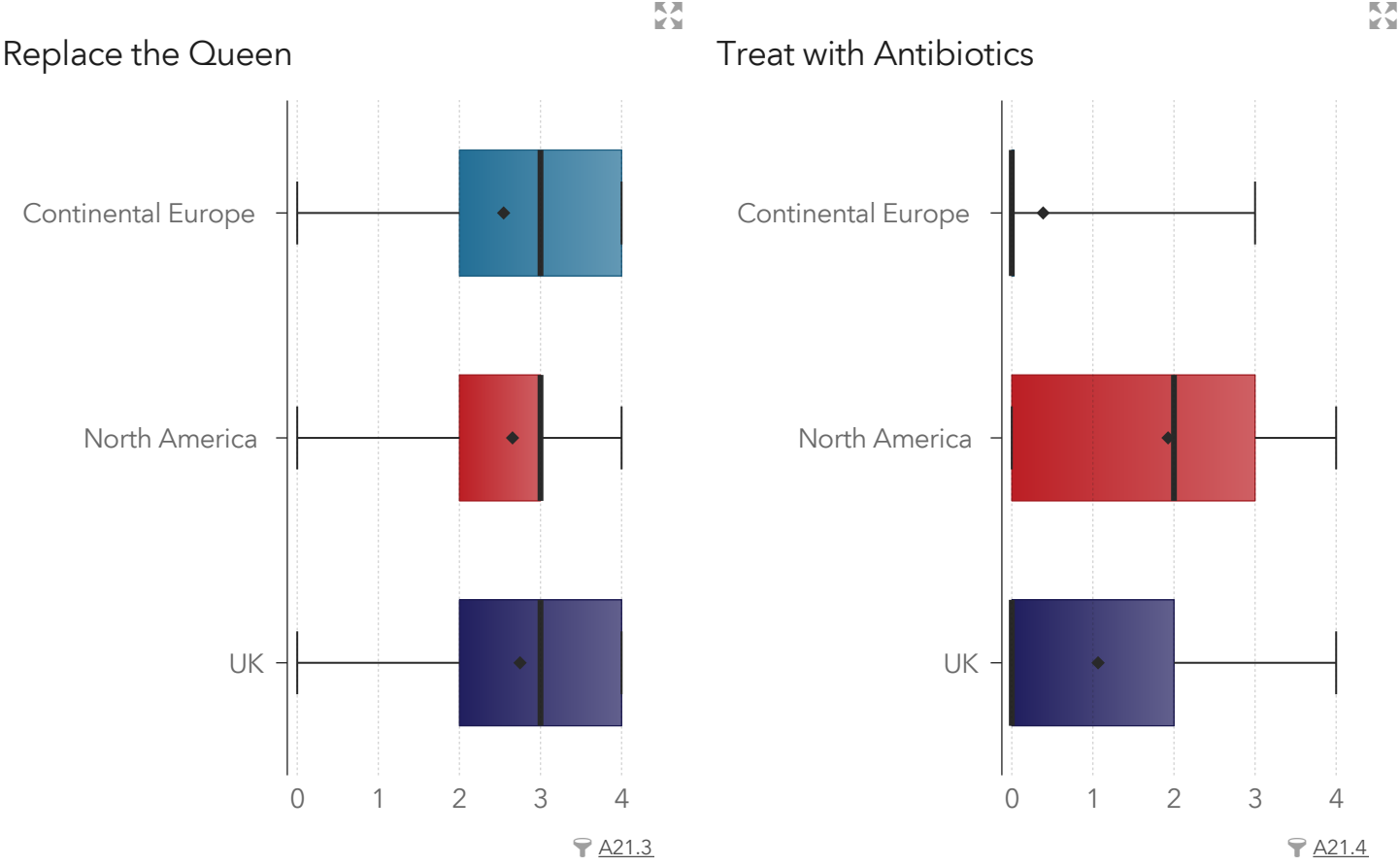
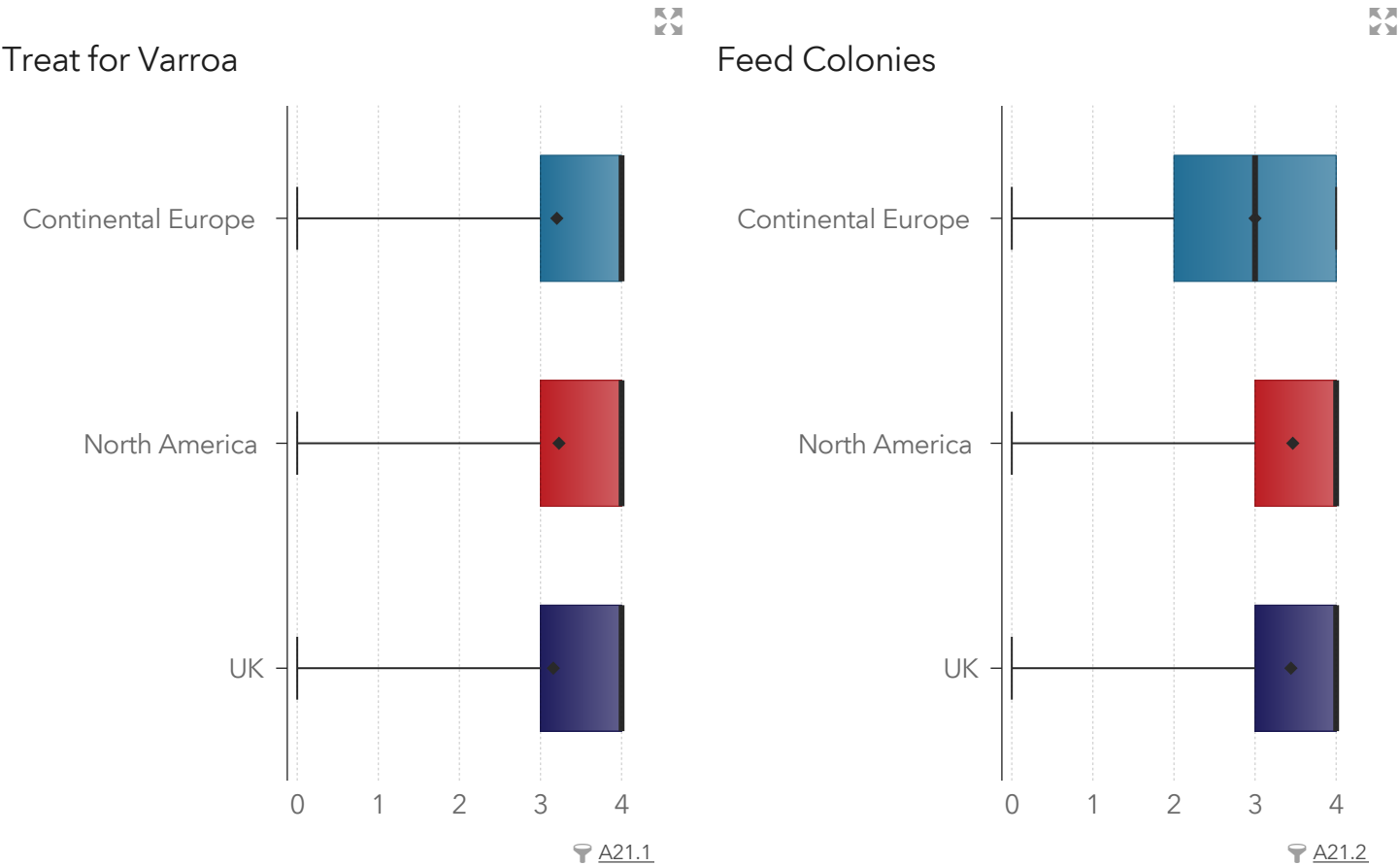
Take samples of hive debris for diagnostics



Select and breed Nosema-resistant bees

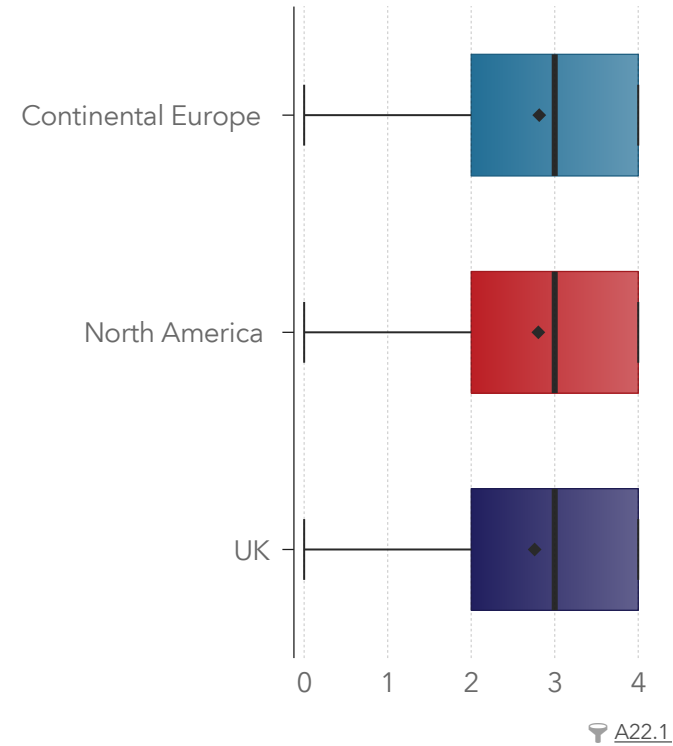


#24 Please indicate how feasible each of the following could be in your beekeeping activiti...

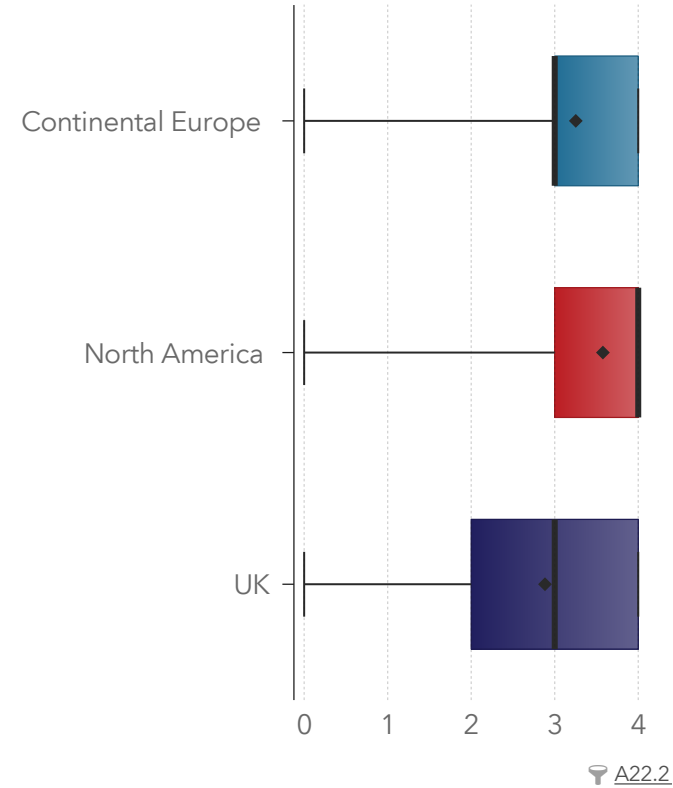


#25 Please indicate how useful each of the following practices are in preventing/managing...

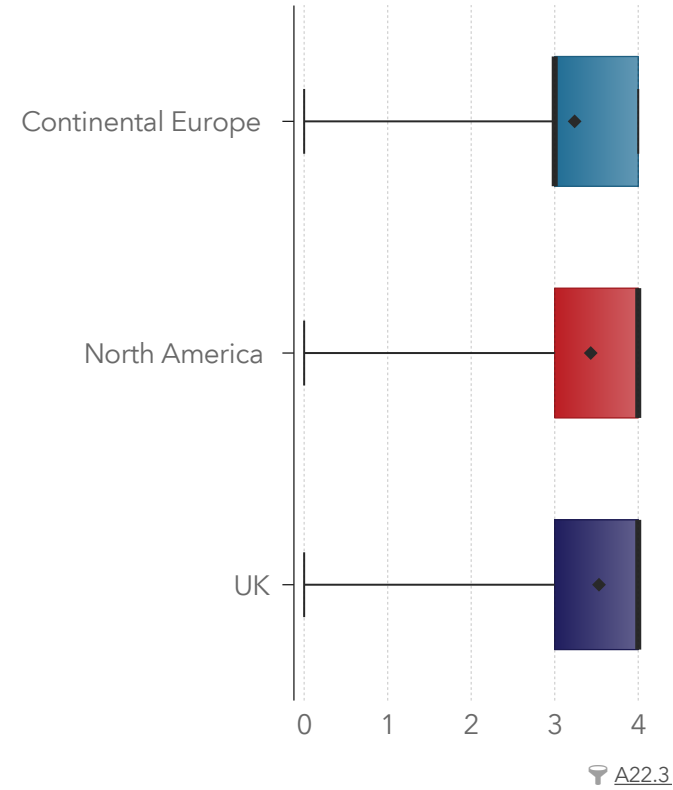
Inspect hives more frequently to detect the disease earlier



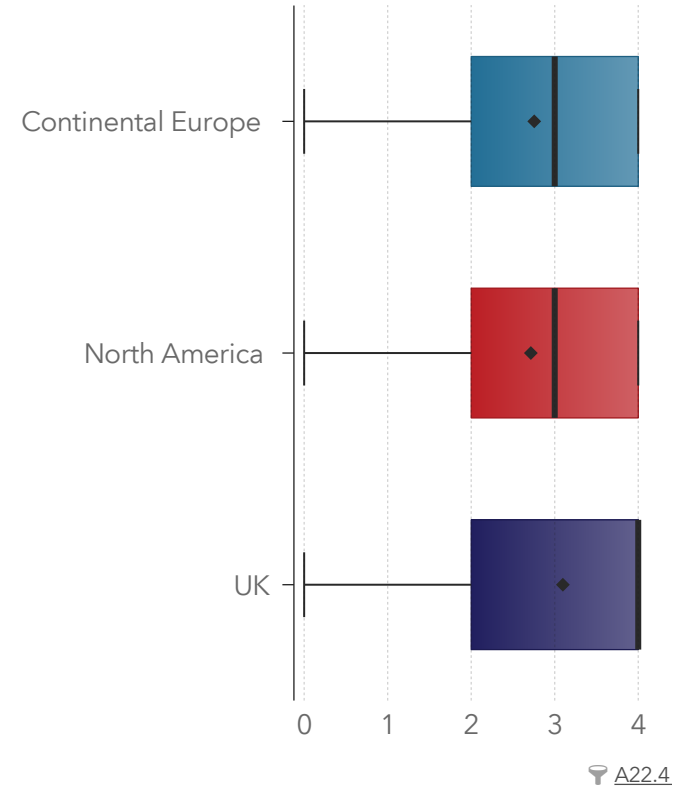
Be aware of the odor opening the hive



Perform the ropiness test

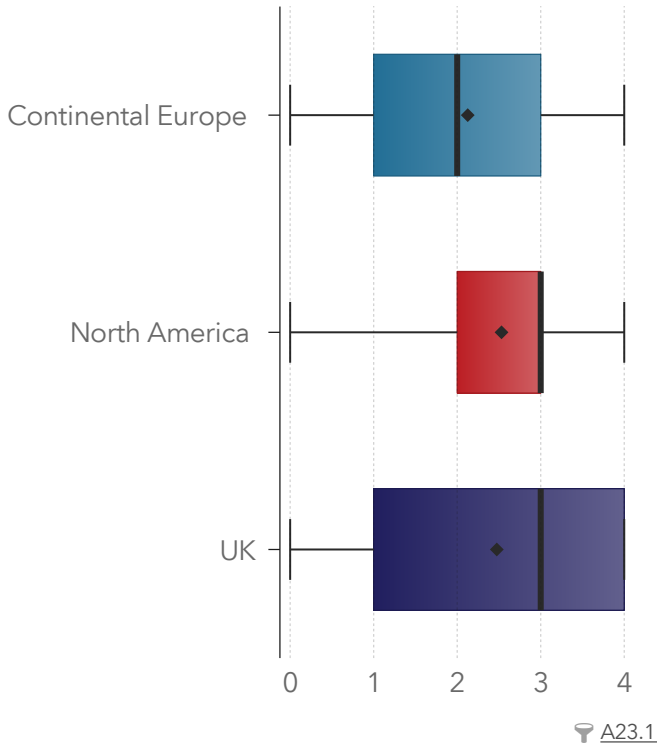


Find AFB/EFB typical scales

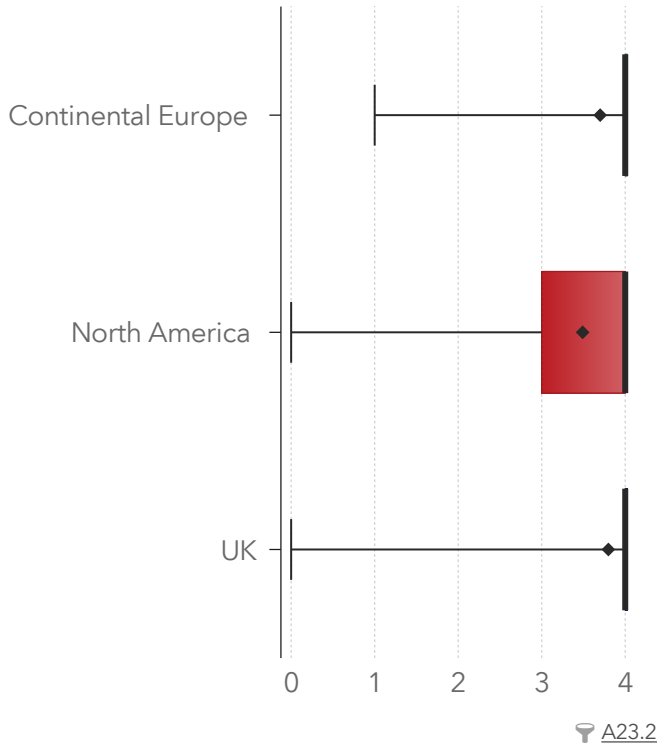


#25 Please indicate how useful each of the following practices are in preventing/managing...

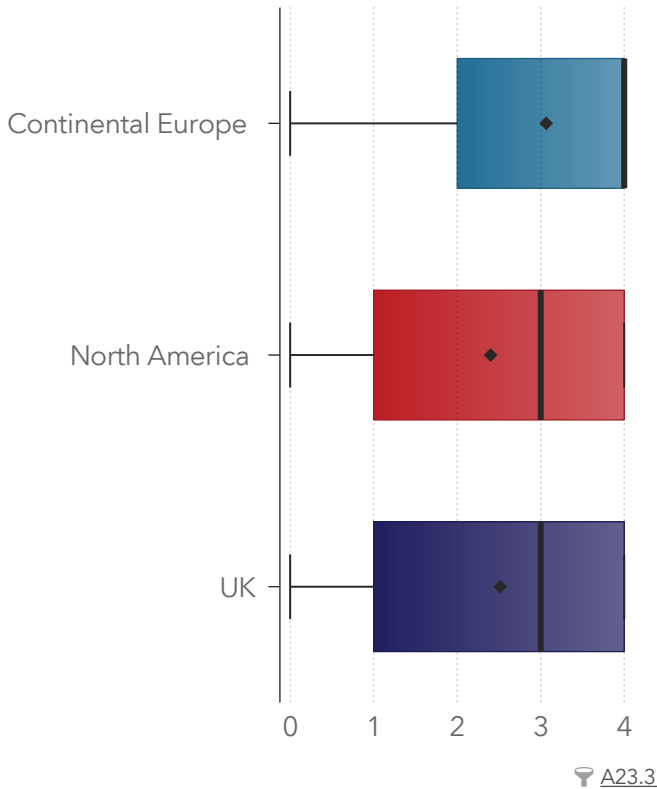
Adopt commercial on-field kit for self diagnosis



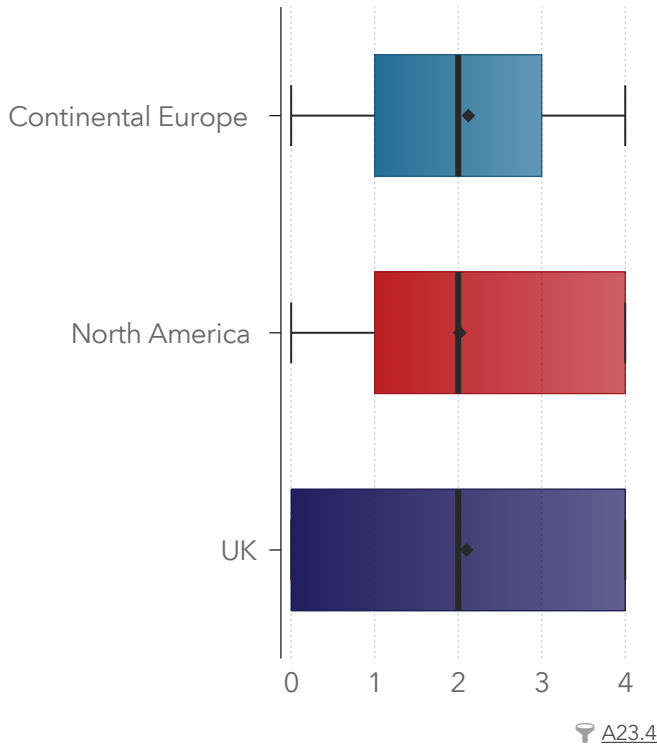
Disinfect or incinerate the infected bee tools, facilities, and equipment



Process wax safely

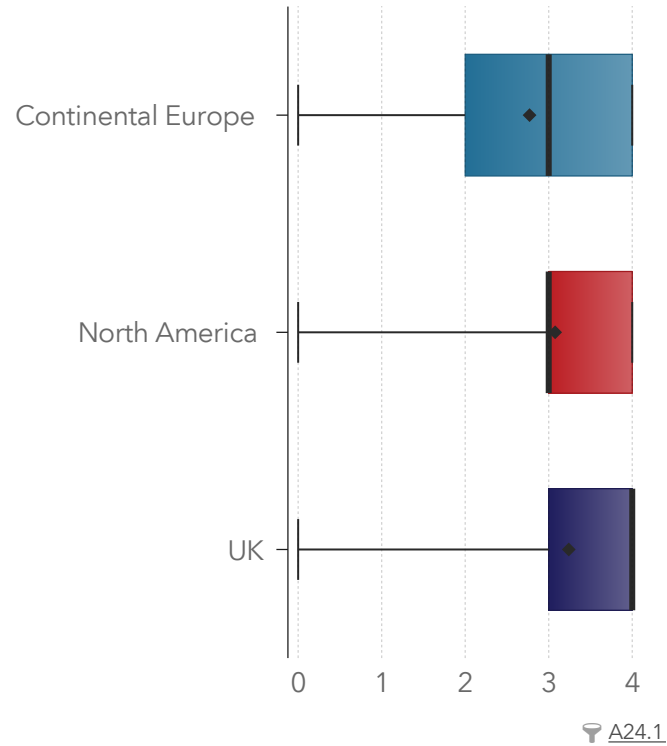


Send healthy hive samples to lab as preventative measure

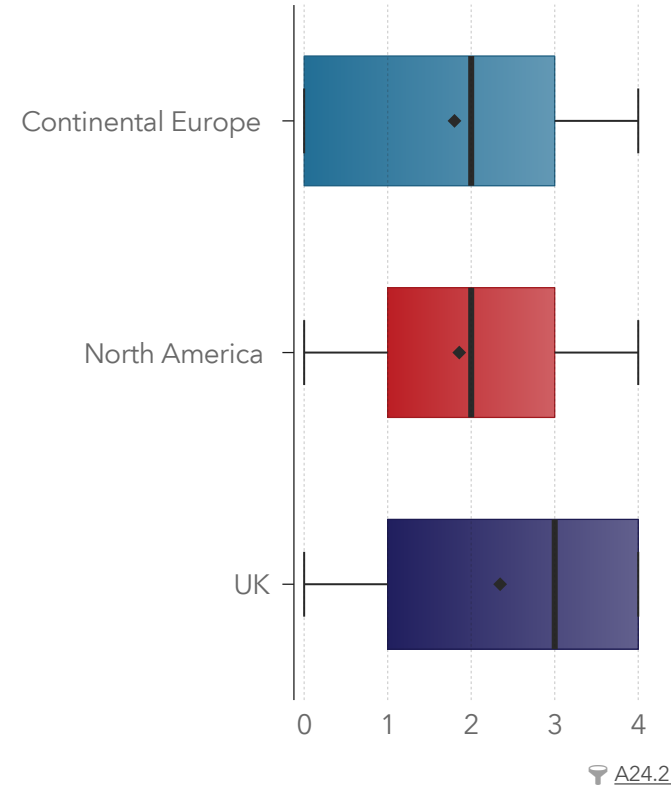


#25 Please indicate how useful each of the following practices are in preventing/managing...

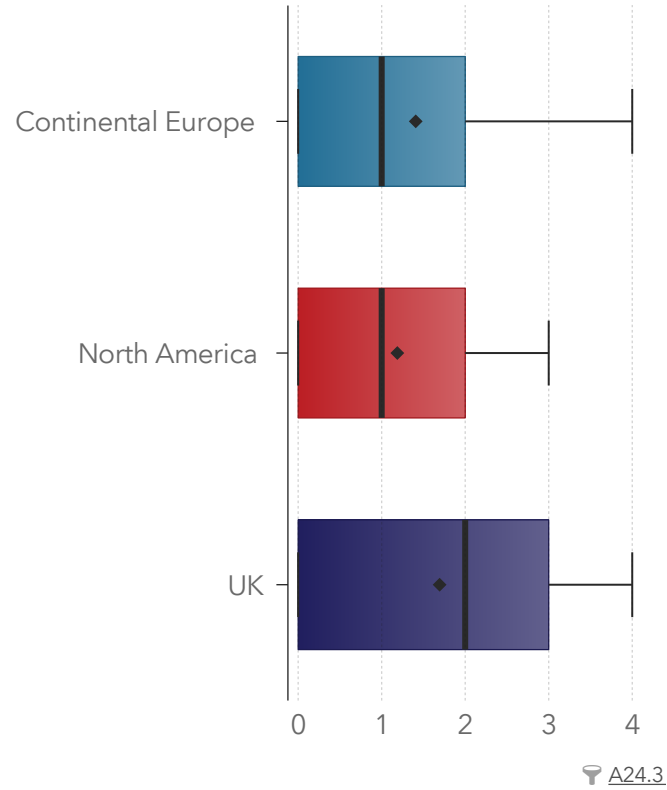
Send samples from hives showing signs of the disease to a lab



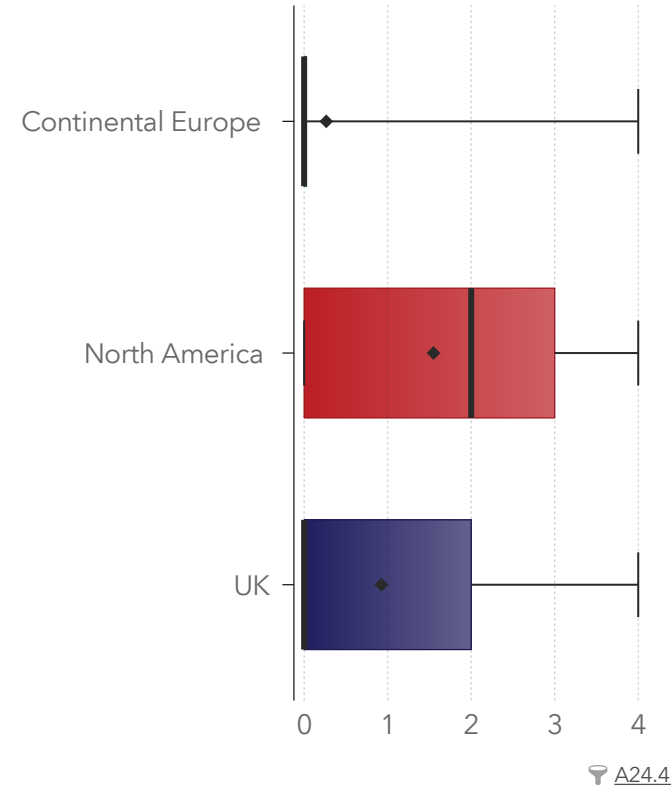
Do a shook swarm of the infected hives...



Do the shook swarm of the whole apiary

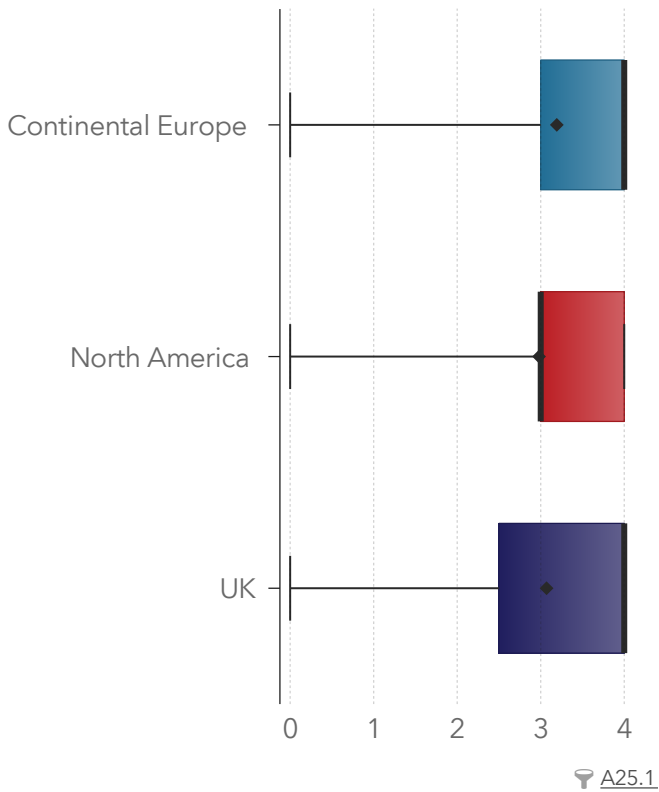


Treat with antibiotics

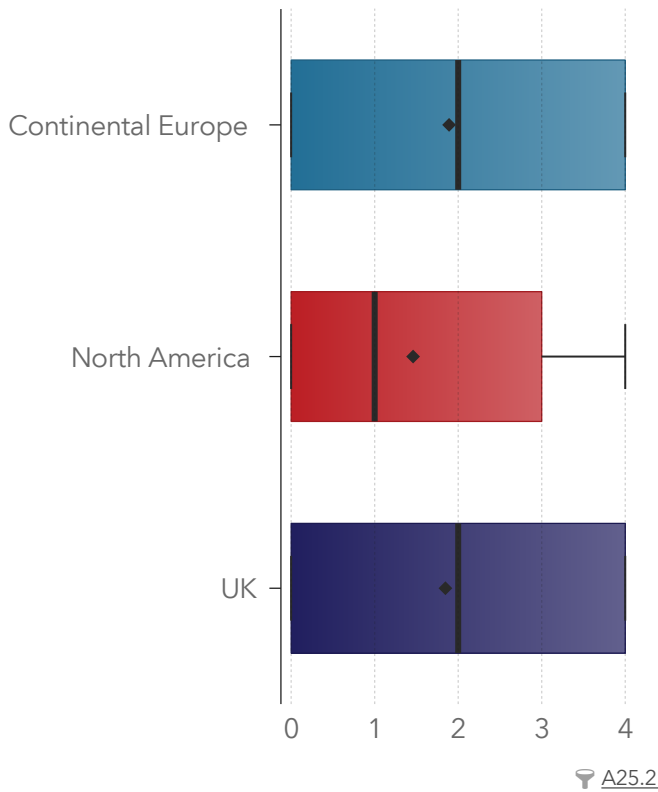


#25 Please indicate how useful each of the following practices are in preventing/managing...

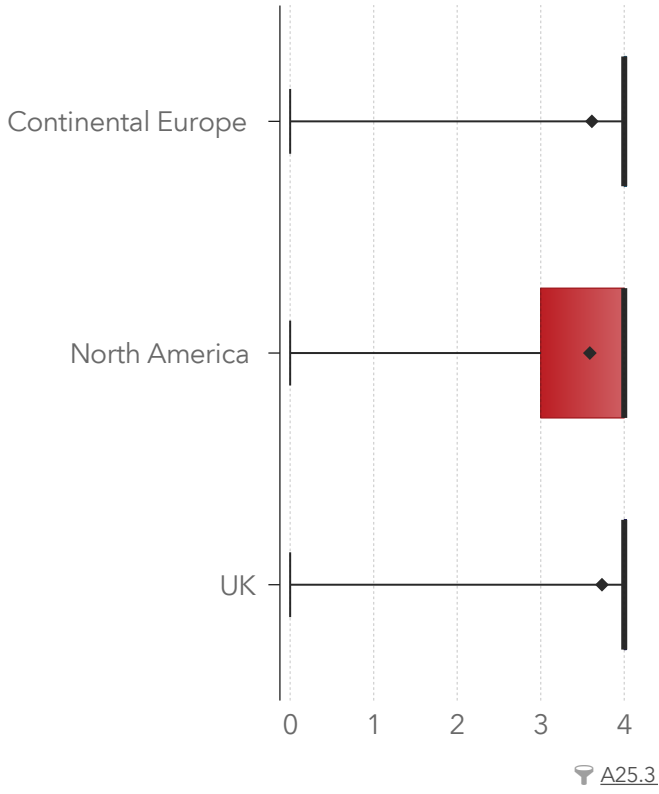
Destroy only infected colonies



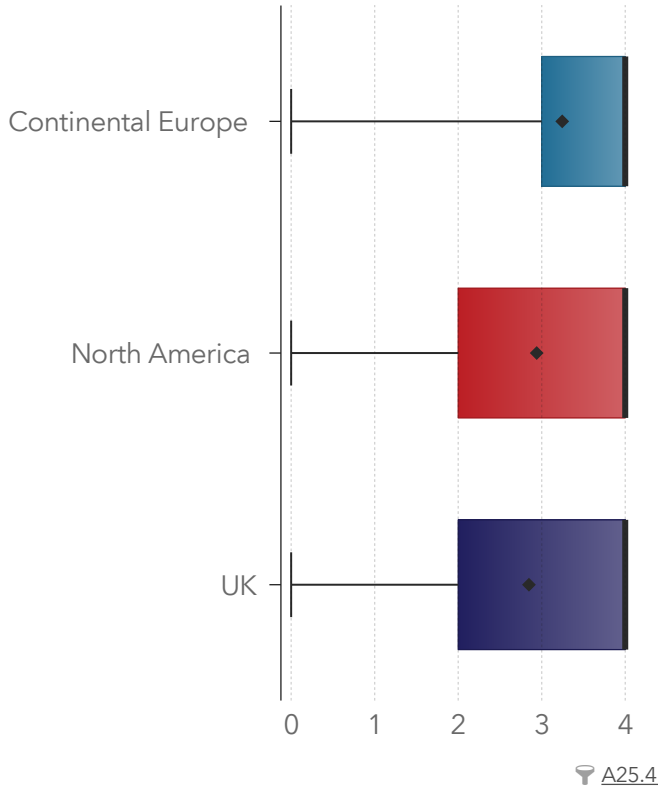
Destory the whole apiary



Take steps quickly to manage the disease



Select queen breeders free of AFB/EFB

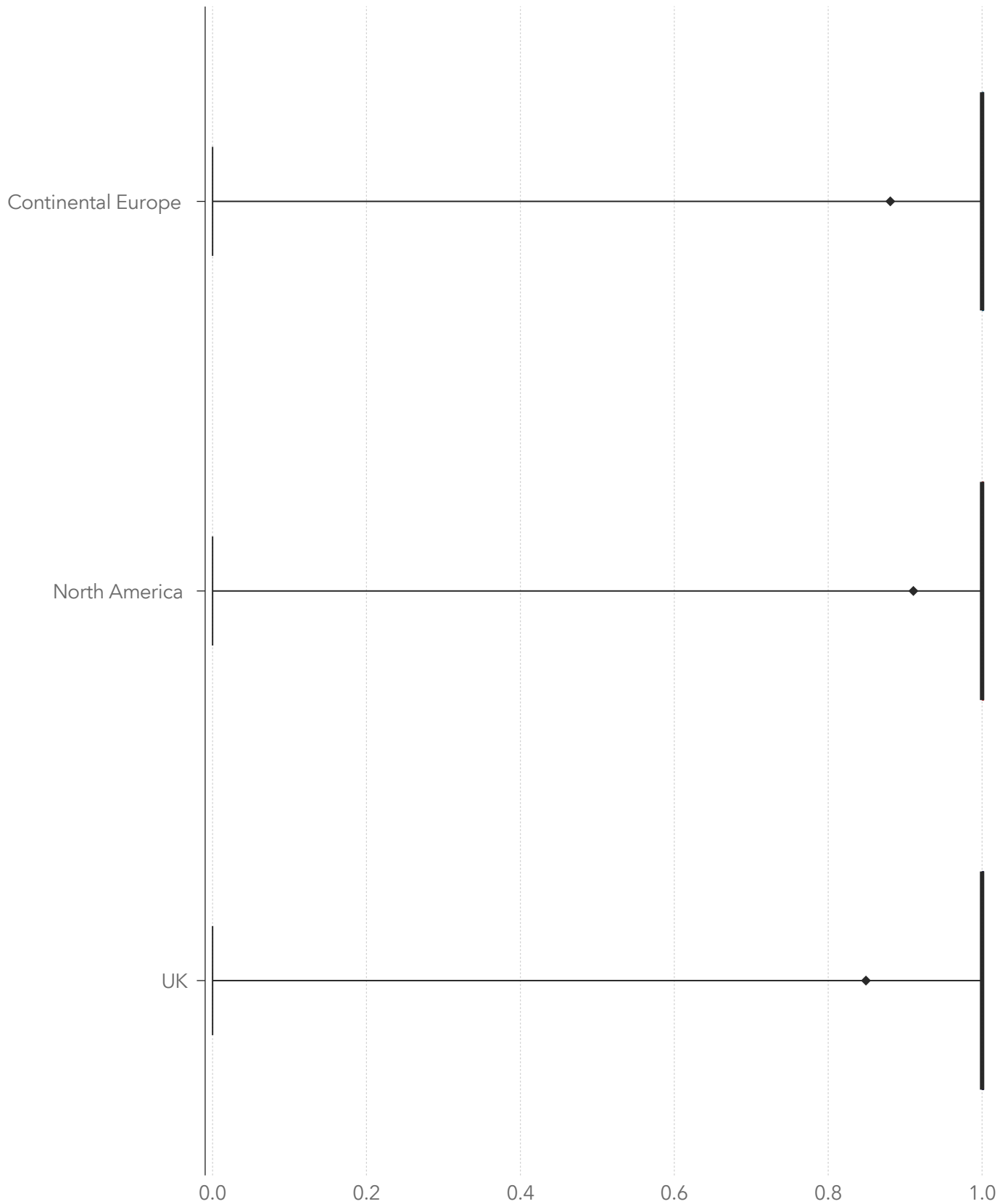




## #27 Would you be interested in bee health training?



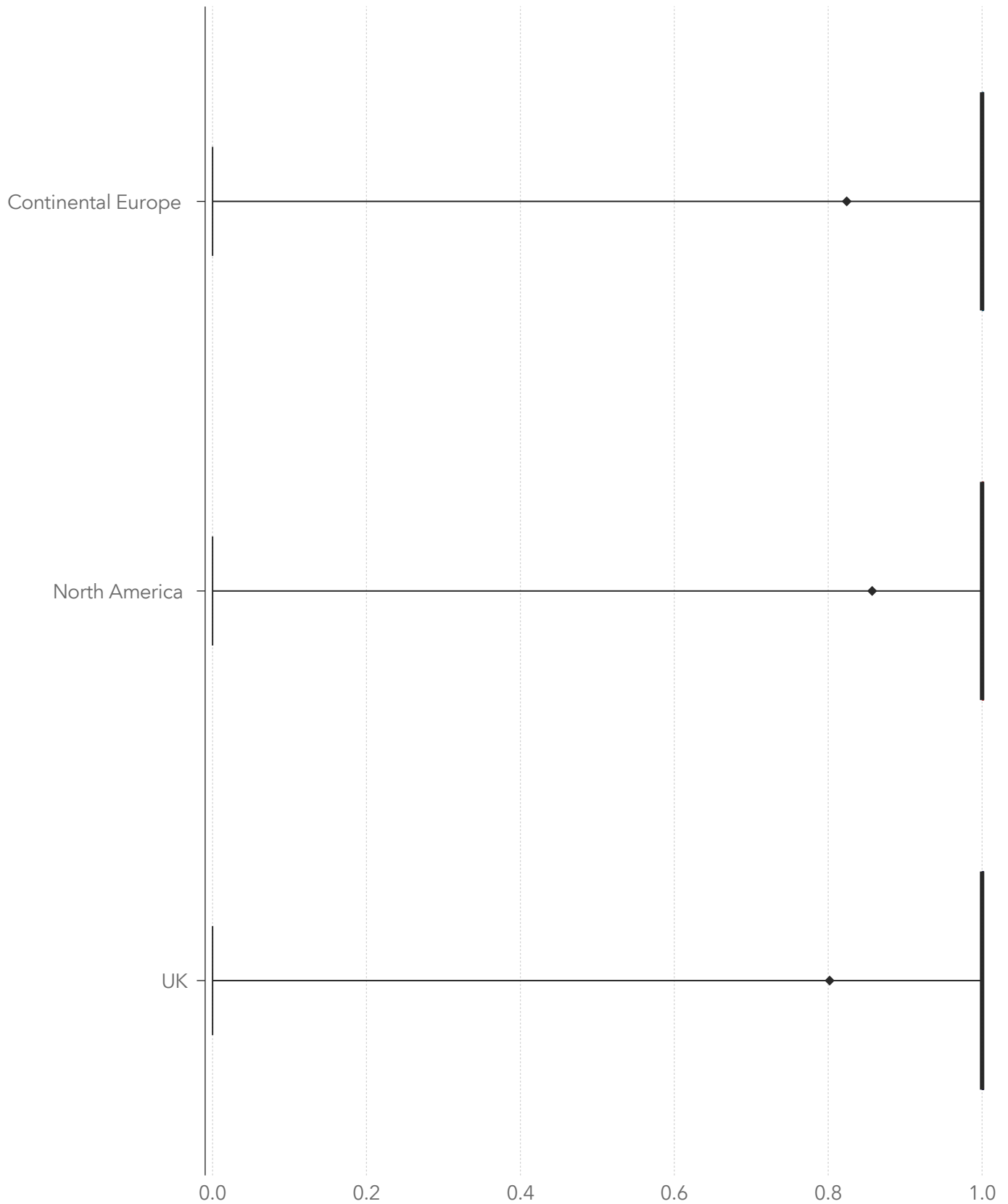
### Interest in Bee Health Training



## #28 Would you be interested in an online training course?



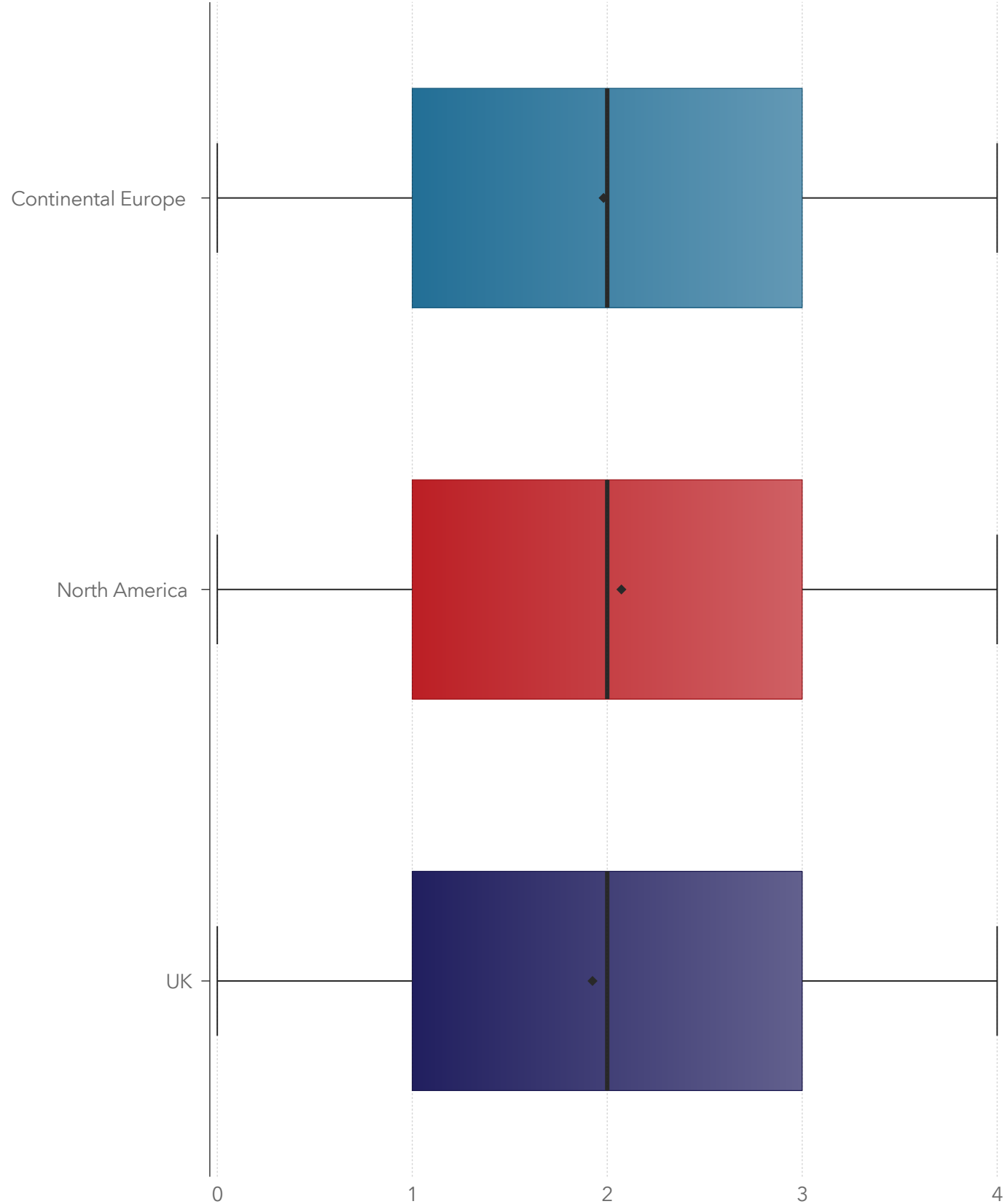
Interest in an online training course



#31 How interest are you in a nationwide service connecting beekeepers with veterinary ex...



Interest in nationwide service connecting beekeepers and bee veterinary specialists



## #29 Please list any professional beekeeping associations/groups related to bees and bee...



### prof\_groups ▲

Apimarca
apimarca, apidolomiti
APIMIL
APIMONDIA
Apisole
Apivalpo AG
Aral
ARAL
Arap puglia
arpat
Aspromiele, SVETAP
Associazione Api e Biodiversit� - Pietravairano (CE), segreteria@apiebio.it - tel. 3286657545
Associazione apicoltori della provincia di Bergamo
associazione apicoltori delle province toscane
Associazione apicoltori di Udine, Associazione ape carnica
associazione apicoltori parma reggio modena
Associazione Apicoltori Roma e Provincia
Assosiation "Bucovinian beekeeper"
Assosiation "Bucovinian beekeeper", "Union of beekeepers of Ukraine"
avi - honeybee valley
AVI KonVIB Mellifica Fort Knox Zwartebij.org American Bee Journal Kiwimana, TFB
AVI,Vlaamse bij
Baka, local association
Basic, Advanced, Queen Rearing
bbka
Bbka
BBKA
Bbka _ Dorchester and Weymouth beekeepers association
BBKA / Beebase
BBKA and local association. IBRA
BBKA and local branches
bbka bibba
BBKA OBKA
BBKA, BDBKA
BBKA, BIBBA
BBKA, BIBBA, NBU, BeeBase

## #30 Please list any bee-specific training or courses that you've attended:



### bee\_train



17

2 ans cours d'apiculture + Œlevage de reine

2 ans de formation au rucher Œcole de berloz

2 courses

2019 Bee health day organised by Defra

3

a lot

ŒWorkshop on ŒNutritional and Therapeutic Uses of Honey Bee Products (Bee venom)Œ F...

Advanced Beekeeping Husbandry

afb rcognition course, numerous seminar days

alessandro2168@gmail.com

algemene cursus bijen houden.

Allevamento api Regine, produzione polline e pappa reale . Cure e lotta alla varroa

Annual bee disease awareness traing course in Scotland

Apicoltura 1e 2 livello

Apicoltura base

attend meetings bbka

Autodidatta

Basic assessment, local sessions

Basic Beekeepers exam - UK

Basic Beekeeping

Basic Beekeeping (BBKA), various natural beekeeping courses

Basic beekeeping course

Basic Beekeeping Course, numerous bee ŒhealthŒ™ days and seminars at our association and...

Basic certification through university

Basic training run by a branch of the BBKA

Basic Training, ongoing lectures

Basic, Swarm control, Queen rearing

Basis cursus, koninginneteelt, bijenziekten, bijenproducten

BBKA

BBKA advanced Husbandry, BBKA module 3

BBKA Basic Assessment

BBKA Basic, BBKA General Husbandry, NBU disease day

BBKA Basic, Modules 1,2 and 3

BBKA correspondence course - all modules for advanced theory

BBKA Courses and examinations

### #33 Share any additional comments you have:



add\_comm



AFB should be regarded as far more serious than EFB. Your questions put them as equal. The UK destroy colonies...

Again your questions would be better if they allowed some explanation in places. Antibiotics are not routinely used...

All AFB hives in the UK are controlled and destroyed by fire. We don't use antibiotics. NBU oversees our beekeeping...

already get emails from beebase/bee unit/ defra

As you see there is a number of questions I didn't answer, and some of the ones I answered, I wonder if I should have...

Biavle

De vraag: "Hoe vaak inspecteert u de netelroos tijdens het actieve seizoen? (Selecteer alstublieft het dichtstbijzijnde aantal...)

De derde gang, ik vuller de generelle spiegel. Kunne ik een andere gang lagere dem el...

Difficult to answer combined AFB and EFB questions as the treatment is different for them. In the UK we have excellent information...

Found drop down menu confusing and may have given incorrect answers

I am a veterinarian and want to help beekeepers

I am an organic gardener of 47 years. My 3 hives are sited in my 1/2 acre organic garden of 37 years standing...

I have been teaching beginner beekeeping courses for Allegany College of Maryland for 7 years

I have much more to learn!

I have not been able to get into my hives this year

I would like to improve my knowledge in honey bees disease and pest to help the beekeeper in my community...

I would like you to have separated the questions on AFB and EFB so that there was no confusion. We may have...

If one of my hives had EFB or AFB I would immediately contact a bee inspector! In general by NOT opening colonies...

In England and Wales we have a bee inspectorate service that regularly inspect our colonies for the presence of AFB...

In NZ it is compulsory to destroy all AFB infected colonies, also as yet we do not have EFB

In the last five years I am working in my master thesis and I have experience in Beekeeping (Queen breeding, colony management...)

In the UK a government agency, the NBU, deal with any suspected outbreak of foul brood - a beekeeper should report it...

In the UK both AFB and EFB are notifiable diseases. We have to treat as the Bee Inspector dictates. AFB treatment is...

In the UK the only "treatment" for Nosema that's approved are comb changes (bailey) and then changing food...

In the UK, beekeepers suspecting their colonies to be suffering from any of the foul broods are required to report it...

In the UK we destroy all colonies in apiary that are diagnosed with AFB. We shook Swarm colonies with EFB out...

Ik bruger ikke medicin/ I use no medicine

Jeg har ikke kunnet svare på samtlige spørgsmål, da jeg heldigvis aldrig er stødt på nogen af dem...

L'associazione di apicoltori nella mia regione è molto attiva sia nella formazione che nel supporto tecnico...

Learned by working for a commercial beekeeper, not by attending training courses

Les contaminations de loques (européenne et américaine) sont souvent issues d'importations d'abeilles...

Mema Ervis

My answers about nosema were based on my experience with N. ceranae (I have never had cases with N. apis...)

My answers seem like I don't care. That's not the case. I based my answers on my experience...

Nb UK already has such a nationwide service asked about in above question

## Appendix

### A1.1 Country Map

---

Warnings: Some features may not be displayed on the map because of missing location information in the data.  
No matches were found for supplied geography data items: (missing), 165, Morrocco, United Kingdom of Great Britain and Northern Ireland, United States of America, United States Virgin Island

Display Rules: Graph

- Continental Europe
- North America
- UK

### A2.1 Age

---

Filters: NOT(region = ' ')

Display Rules: Graph

- Continental Europe
- North America
- UK

### A3.1 Gender

---

Filters: NOT(region = ' ')

Display Rules: Graph

- Continental Europe
- North America
- UK

### A4.1 Education

---

Filters: NOT(region = ' ')

Display Rules: Graph

- Continental Europe
- North America
- UK

### A5.1 Years of Experience Beekeeping

---

Filters: NOT(region = ' ')

Display Rules: Graph

- Continental Europe
- North America
- UK

### A6.1 Estimated Number of Hives

---


Filters: NOT(region = ' ')  
( est\_hives BetweenInclusive(1; 1161) ) AND est\_hives NotMissing

#### A6.1 Estimated Number of Hives

---

Display Rules:

Graph

 Continental Europe

 North America

 UK

#### A7.1 Dadant Blatt

---

Filters:

NOT(region = '')

Display Rules:

Graph

 Continental Europe

 North America

 UK

#### A7.2 Warre Hive


---

Filters:

NOT(region = '')

Display Rules:

Graph

 Continental Europe

 North America

 UK

#### A7.3 Langstroth


---

Filters:

NOT(region = '')

Display Rules:

Graph

 Continental Europe

 North America

 UK

#### A7.4 Top-Bar Hive


---

Filters:

NOT(region = '')

Display Rules:

Graph

 Continental Europe

 North America

 UK

#### A8.1 Other(s), please explain


---

Filters:

NOT(region = '')

Display Rules:

Graph

 Continental Europe

 North America

 UK






## A8.2 List Table - type\_hives\_text 1

---

Filters: NOT(type\_hives\_text = '')

Display Rules: Table




-  Continental Europe
-  North America
-  UK

## A9.1 Professional Beekeepers

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

## A10.1 Bee movement

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

## A11.1 Frequency of Hive Inspections

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

## A12.1 Nosema

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

## A13.1 American Foulbrood

---

Filters: NOT(region = '')




Display Rules: Graph

-  Continental Europe
-  North America
-  UK

#### A14.1 European Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A15.1 Nosema

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A15.2 European Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A15.3 American Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A16.1 Nosema

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A16.2 European Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A16.3 American Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A17.1 Nosema

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A17.2 European Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A17.3 American Foulbrood

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A18.1 Removing combs that show signs of dysentery

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A18.2 Take samples of forager bees for diagnostics

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A18.3 Take samples of hive debris for diagnostics

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A19.1 Treat for Varroa

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A19.2 Feed Colonies

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A19.3 Replace the Queen

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A19.4 Treat with Antibiotics

---




Filters: NOT(region = ' ')

Display Rules: Graph  
 Continental Europe  
 North America  
 UK

### A20.1 Removing combs that show signs of dysentery

---

Filters: NOT(region = ' ')




Display Rules: Graph  
 Continental Europe  
 North America  
 UK

#### A20.2 Take samples of forager bees for diagnostics

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A20.3 Take samples of hive debris for diagnostics

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A20.4 Select and breed Nosema-resistant bees

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A21.1 Treat for Varroa

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A21.2 Feed Colonies

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A21.3 Replace the Queen

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A21.4 Treat with Antibiotics

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A22.1 Inspect hives more frequently to detect the disease earlier

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A22.2 Be aware of the odor opening the hive

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A22.3 Perform the ropiness test

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A22.4 Find AFB/EFB typical scales

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A23.1 Adopt commercial on-field kit for self diagnosis

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A23.2 Disinfect or incinerate the infected bee tools, facilities, and equipment

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A23.3 Process wax safely

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A23.4 Send healthy hive samples to lab as preventative measure

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A24.1 Send samples from hives showing signs of the disease to a lab

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A24.2 Do a shook swarm of the infected hives...

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A24.3 Do the shook swarm of the whole apiary

---

Filters: NOT(region = ' ')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A24.4 Treat with antibiotics

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A25.1 Destroy only infected colonies

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A25.2 Destory the whole apiary

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A25.3 Take steps quickly to manage the disease

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A25.4 Select queen breeders free of AFB/EFB

---

Filters: NOT(region = '')

Display Rules: Graph




-  Continental Europe
-  North America
-  UK

#### A26.1 Interest in Bee Health Training

---

Filters: NOT(region = '')

Display Rules: Graph

-  Continental Europe
-  North America
-  UK



A27.1 Interest in an online training course

Filters: NOT(region = ' ')

Display Rules: **Graph**

- Continental Europe  
■ North America  
■ UK

A28.1 Interest in nationwide service connecting beekeepers and bee veterinary specialists

Filters: NOT(region = ' ')

Display Rules: **Graph**

- Continental Europe  
■ North America  
■ UK

A29.1 List Table - prof\_groups 1

[illegible]

Display Rules: Table

- Continental Europe  
■ North America  
■ UK

A30.1 List Table - bee\_train 1

[illegible]

Display Rules: Table

- Continental Europe  
■ North America  
■ UK

[illegible]

Display Rules:

Table

- Continental Europe
- North America
- UK

bee_country	Frequency 
	36
165	1
Albania	1
Argentina	1
Australia	1
Austria	3
Bahamas	1
Belgium	18
Bosnia and Herzegovina	1
Canada	5
Chile	2
Colombia	2
Denmark	34
Djibouti	1
Ecuador	1
Egypt	18
Eritrea	1
Ethiopia	1
France	6
Georgia	1
Germany	4
Greece	1
Honduras	1
India	1
Iran	1
Italy	54
Libya	1
Malawi	1
Mayotte	1
Mexico	1
Morocco	2
Mozambique	1
New Zealand	2
Nigeria	1
Norway	1
Pakistan	2
Poland	2
Portugal	1
Rwanda	1
Saudi Arabia	4

bee_country	Frequency
Slovakia	1
Slovenia	3
Spain	1
Sweden	1
Switzerland	1
Turkey	1
Ukraine	4
United Kingdom of Great Britain and Northern Ireland	123
United States of America	57
United States Virgin Island	1

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	28	28	44.5	53.75	53	63	88
North America	29	29	54.5	59.6875	60.5	69	84
UK	30	30	54	60.235294118	61	69	88



Upper Whisker	Maximum	Std Dev	Count
88	88	12.46322321	120
84	84	11.25586267	64
88	88	11.760826878	119

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.2096774194	0	0	1
North America	0	0	0	0.3606557377	0	1	1
UK	0	0	0	0.4122807018	0	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.4087298101	124
1	1	0.484175825	61
1	1	0.4944184661	114



region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.512195122	2	2	3
North America	0	0	1	1.90625	2	3	3
UK	0	0	1	1.91666666667	2	3	3



Upper Whisker	Maximum	Std Dev	Count
3	3	1.0816339617	123
3	3	0.920985497	64
3	3	1.057850471	120

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	5	14.778688525	10	22	50
North America	0	0	2.5	11.59375	5.5	13	50
UK	1	1	3	10.661157025	7	10	50



Upper Whisker	Maximum	Std Dev	Count
50	50	13.717041518	122
50	50	13.779117798	64
50	50	11.836070378	121

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	2	2	7	44.034482759	14	30	63
North America	1	1	3	16.709677419	6	20	45
UK	1	1	3	7.4358974359	4	10	20



Upper Whisker	Maximum	Std Dev	Count
63	500	83.263430152	116
45	150	26.984748028	62
20	60	8.3080607051	117

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.4836065574	0	1	1
North America	0	0	0	0	0	0	0
UK	0	0	0	0	0	0	0



Upper Whisker	Maximum	Std Dev	Count
1	1	0.5017919387	122
0	0	0	64
0	0	0	122



region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.0409836066	0	0	1
North America	0	0	0	0.015625	0	0	1
UK	0	0	0	0.0163934426	0	0	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.1990697782	122
1	1	0.125	64
1	1	0.1275067042	122

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.106557377	0	0	1
North America	0	0	1	0.953125	1	1	1
UK	0	0	0	0.0573770492	0	0	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.309822051	122
1	1	0.2130420258	64
1	1	0.2335206763	122

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.0409836066	0	0	1
North America	0	0	0	0.0625	0	0	1
UK	0	0	0	0.0409836066	0	0	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.1990697782	122
1	1	0.2439750182	64
1	1	0.1990697782	122

type_hives_text ▲	Frequency ✖
10 * 12	1
12 x 10 opstabling	1
12-10	2
12-10 opstabling	1
12"*10"	1
12/10	2
12x10	2
12x10 opstabling	1
12x10 styropor	1
14*12 and standard National	1
AZ	1
AZ Hive	1
british national	1
British national	2
British National	9
British National hive	1
British National Hive	1
British national standard	1
British National Standard	1
British Standard	1
British Standard National	1
BritishNational	1
BS National	4
commercial	1
Commercial	2
Commercial Brood, with National Supers, bottom bee space	1
Horizontal Langstroth, observation	1
italica-carlini	1
jumbo	1
Kempisch	2
Kempische kast	1
kubik	1
Like a Langstroth hive, but another frame size	1
Longbar .	1
longhive made up of x2 standard hives also x 2 standard hives	1
Lusitana	1
Mod. National	1
Modified Commercial	1
modified national	1

type_hives_text ▲	Frequency ✖
Modified National	1
Modified National (UK)	1
national	5
National	36
NAtional	1
national poly	1
National & WBC	2
National 14 x 12	2
National and WBC	1
National and WBC hives	1
National commercial	1
National Commercial	1
National Hive	1
Nationals	1
Norsk mÃ¸fÂ¥l	1
Norsk MÃ¸fÂ¥l	2
Norske mÃ¸fÂ¥l	1
norskmÃ¸fÂ¥l	1
Norwegian style	1
OSB/ Rose hive	1
paille	1
Polystyrene UK National & 14x12	1
portuguese model lusitania	1
RammemÃ¸fÂ¥l12Ã¸fÂ¥l— 10	1
segeberger	2
Segeberger simplex	1
simplex	1
Simplex	2
Simplex kasten (Simplex Hives Belgium)	1
smith / national	1
Smith hives, a tradition UK style similar to Langstroth	1
Trugstade 12x10	1
Trugstade	1
Trugstade 12 x 10	1
Trugstade 12x10	1
UK national	1
UK National	4
UK National 14x12	1
W.B.C & National	1



type_hives_text ▲	Frequency ✕
WBC	3
WBC and British standard national	1
WBC AND NATIONAL	1
WBC and UK National	1
WBC, National	1
wlkp	1
Zander	4
Zander, Simplex	2

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.4508196721	0	1	1
North America	0	0	0	0.046875	0	0	1
UK	0	0	1	0.9180327869	1	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.4996272828	122
1	1	0.2130420258	64
1	1	0.2754459625	122

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.2357723577	0	0	1
North America	0	0	0	0.125	0	0	1
UK	0	0	0	0.0655737705	0	0	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.4262166926	123
1	1	0.3333333333	64
1	1	0.2485563248	122

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.243902439	0	0	1
North America	0	0	0	0.0952380952	0	0	1
UK	0	0	0	0.1166666667	0	0	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.4311909435	123
1	1	0.2959013411	63
1	1	0.3223686843	120

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.9512195122	4	4	7
North America	2	2	3	3.1875	3	4	7
UK	0	0	3	3.6803278689	4	4	7





Upper Whisker	Maximum	Std Dev	Count
7	7	1.6833497953	123
7	7	0.7943251104	64
7	7	1.1731598458	122

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	0.8153846154	1	1	1
North America	0	0	1	0.828125	1	1	1
UK	0	0	1	0.9268292683	1	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.3894861529	130
1	1	0.3802541965	64
1	1	0.2614816455	123

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	0.8538461538	1	1	1
North America	0	0	1	0.875	1	1	1
UK	0	0	1	0.8780487805	1	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.3546269677	130
1	1	0.3333333333	64
1	1	0.3285678275	123

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.7384615385	1	1	1
North America	0	0	1	0.765625	1	1	1
UK	0	0	1	0.8130081301	1	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.4411726121	130
1	1	0.4269562819	64
1	1	0.391499712	123

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.1111111111	2	3	4
North America	0	0	1	1.9166666667	2	2	4
UK	0	0	1	1.8608695652	2	2	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.064941133	117
4	4	0.8495595402	60
4	4	0.7710434548	115

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.8534482759	2	2.5	4
North America	0	0	1	1.7	2	2	4
UK	0	0	1	1.8879310345	2	2	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.0571027702	116
4	4	0.8694436171	60
4	4	0.7663754526	116

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1.5	2.2327586207	2	3	4
North America	0	0	1	1.9661016949	2	2	4
UK	0	0	1	1.8173913043	2	2	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.0661410187	116
4	4	0.9090749693	59
4	4	0.7675731715	115

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.982300885	1	2	2
North America	0	0	0	0.7966101695	1	1	2
UK	0	0	0	0.8793103448	1	1	2



Upper Whisker	Maximum	Std Dev	Count
2	2	0.8554687613	113
2	2	0.7606635265	59
2	2	0.7120719604	116

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.5221238938	0	1	2
North America	0	0	0	0.3728813559	0	1	2
UK	0	0	0	0.3982300885	0	1	2





Upper Whisker	Maximum	Std Dev	Count
2	2	0.733111582	113
2	2	0.6669101445	59
2	2	0.543464794	113

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.8230088496	0	2	2
North America	0	0	0	0.3559322034	0	1	2
UK	0	0	0	0.2931034483	0	1	2



Upper Whisker	Maximum	Std Dev	Count
2	2	0.908590829	113
2	2	0.6368757759	59
2	2	0.4937389097	116

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.3504273504	4	4	4
North America	1	1	3	3.5	4	4	4
UK	1	1	3	3.6239316239	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.844007674	117
4	4	0.7702079842	60
4	4	0.5682170501	117

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	1	1	3	3.6525423729	4	4	4
North America	2	2	3	3.5833333333	4	4	4
UK	1	1	4	3.8448275862	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.604500481	118
4	4	0.5612234416	60
4	4	0.4492205477	116

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	2	2	4	3.8547008547	4	4	4
North America	2	2	3.5	3.7166666667	4	4	4
UK	1	1	4	3.8362068966	4	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	0.3774907458	117
4	4	0.5237306419	60
4	4	0.4557643464	116

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.9385964912	3	4	4
North America	0	0	1	2.2352941176	2	3	4
UK	0	0	2	2.8727272727	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.1695630204	114
4	4	1.3651115016	51
4	4	1.1422582727	110

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.0825688073	2	3	4
North America	0	0	1	2.0769230769	2	3	4
UK	0	0	2.5	3	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.3411468307	109
4	4	1.3553981232	52
4	4	1.2380267688	108

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	1.3271028037	1	2	4
North America	0	0	0	1.46	1	3	4
UK	0	0	0	1.3689320388	1	3	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.1555910106	107
4	4	1.3881422029	50
4	4	1.4685613292	103

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.2434782609	3	4	4
North America	0	0	0	1.4901960784	1	3	4
UK	0	0	0	0.9803921569	0	2	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.5423342093	115
4	4	1.5539954829	51
4	4	1.4690226572	102

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.0476190476	2	3	4
North America	0	0	1	2	2	3	4
UK	0	0	0	1.4509803922	2	2	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.2738565942	105
4	4	1.3850513878	50
4	4	1.346998504	102

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.981981982	2	3	4
North America	0	0	0	0.9615384615	0	2	4
UK	0	0	0	1.580952381	2	3	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.3749841783	111
4	4	1.2674126564	52
4	4	1.4059006994	105

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.2803738318	0	0	3
North America	0	0	0	1.8163265306	2	3	4
UK	0	0	0	0.86	0	2	4



Upper Whisker	Maximum	Std Dev	Count
3	3	0.6263761081	107
4	4	1.4093951035	49
4	4	1.302832966	100

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.7247706422	3	4	4
North America	0	0	2	2.8103448276	3	4	4
UK	0	0	3	3.407079646	4	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.2536728237	109
4	4	1.2060795783	58
4	4	0.9125823656	113

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.9065420561	2	3	4
North America	0	0	2	2.3928571429	2	4	4
UK	0	0	2	2.9911504425	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.2403036016	107
4	4	1.3840463921	56
4	4	1.2641737506	113

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.875	2	3	4
North America	0	0	1	2.3035714286	2.5	3.5	4
UK	0	0	1	2.4954954955	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.1379380091	104
4	4	1.4002550788	56
4	4	1.4824664575	111

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.1621621622	2	4	4
North America	0	0	1	1.8421052632	2	3	4
UK	0	0	0	1.3783783784	1	2	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.4304515532	111
4	4	1.2926920096	57
4	4	1.3076978665	111

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.201754386	4	4	4
North America	0	0	3	3.2280701754	4	4	4
UK	0	0	3	3.1578947368	4	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.17631361	114
4	4	1.2394921751	57
4	4	1.411576332	114

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	3	3	4	4
North America	0	0	3	3.4655172414	4	4	4
UK	0	0	3	3.4424778761	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.9384742644	110
4	4	1.0124751198	58
4	4	0.8230827625	113

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.5454545455	3	4	4
North America	0	0	2	2.6551724138	3	3	4
UK	0	0	2	2.7477477477	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.2313665388	110
4	4	1.0687215536	58
4	4	1.1157424635	111

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.3867924528	0	0	3
North America	0	0	0	1.9272727273	2	3	4
UK	0	0	0	1.0642201835	0	2	4



Upper Whisker	Maximum	Std Dev	Count
3	3	0.8114743163	106
4	4	1.4511112658	55
4	4	1.4736904379	109

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.8148148148	3	4	4
North America	0	0	2	2.8039215686	3	4	4
UK	0	0	2	2.7596153846	3	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.042535982	108
4	4	1.1665266022	51
4	4	1.3182453203	104

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.2523364486	3	4	4
North America	0	0	3	3.5769230769	4	4	4
UK	0	0	2	2.8834951456	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.9325705795	107
4	4	0.7757641102	52
4	4	1.2703324474	103

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.2385321101	3	4	4
North America	0	0	3	3.431372549	4	4	4
UK	0	0	3	3.53	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.9515979015	109
4	4	0.9220607781	51
4	4	0.8097262288	100

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.7547169811	3	4	4
North America	0	0	2	2.7142857143	3	4	4
UK	0	0	2	3.097826087	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.2932890573	106
4	4	1.3693063938	49
4	4	1.1772549801	92

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.1262135922	2	3	4
North America	0	0	2	2.5306122449	3	3	4
UK	0	0	1	2.4742268041	3	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.1434348979	103
4	4	1.1920228049	49
4	4	1.4866964462	97

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	1	1	4	3.7	4	4	4
North America	0	0	3	3.4901960784	4	4	4
UK	0	0	4	3.7980769231	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.5989287072	110
4	4	0.8336077979	51
4	4	0.597402268	104

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	3.0654205607	4	4	4
North America	0	0	1	2.4	3	4	4
UK	0	0	1	2.5151515152	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.230669614	107
4	4	1.511857892	50
4	4	1.6058797345	99

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	2.1214953271	2	3	4
North America	0	0	1	2.0196078431	2	4	4
UK	0	0	0	2.1	2	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.2937460628	107
4	4	1.4627398412	51
4	4	1.6111981864	100

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	2	2.7706422018	3	4	4
North America	0	0	3	3.0769230769	3	4	4
UK	0	0	3	3.24	4	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.2883597634	109
4	4	1.2020595699	52
4	4	1.2562570669	100

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	1.8	2	3	4
North America	0	0	1	1.8571428571	2	3	4
UK	0	0	1	2.3465346535	3	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.519294863	110
4	4	1.4719601444	49
4	4	1.5838916855	101

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	1.4077669903	1	2	4
North America	0	0	0	1.1875	1	2	3
UK	0	0	0	1.693877551	2	3	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.3535493878	103
3	3	1.0650392062	48
4	4	1.6144206025	98

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	0.2647058824	0	0	4
North America	0	0	0	1.5490196078	2	3	4
UK	0	0	0	0.9247311828	0	2	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.628158878	102
4	4	1.3610837666	51
4	4	1.2531400486	93

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.1926605505	4	4	4
North America	0	0	3	2.98	3	4	4
UK	0	0	2.5	3.07	4	4	4





Upper Whisker	Maximum	Std Dev	Count
4	4	1.1095299657	109
4	4	1.23701418	50
4	4	1.2411708386	100

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	0	1.8909090909	2	4	4
North America	0	0	0	1.46	1	3	4
UK	0	0	0	1.8469387755	2	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.5700491113	110
4	4	1.5414014297	50
4	4	1.5947855805	98

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	4	3.6126126126	4	4	4
North America	0	0	3	3.5882352941	4	4	4
UK	0	0	4	3.7333333333	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	0.9162291414	111
4	4	0.8288901155	51
4	4	0.7998397275	105

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	3	3.2454545455	4	4	4
North America	0	0	2	2.94	4	4	4
UK	0	0	2	2.8469387755	4	4	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.0508743728	110
4	4	1.4201178451	50
4	4	1.4808192273	98

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	0.880733945	1	1	1
North America	0	0	1	0.9107142857	1	1	1
UK	0	0	1	0.8490566038	1	1	1





Upper Whisker	Maximum	Std Dev	Count
1	1	0.3255983279	109
1	1	0.2877363512	56
1	1	0.3596943896	106

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	0.8240740741	1	1	1
North America	0	0	1	0.8571428571	1	1	1
UK	0	0	1	0.8018867925	1	1	1



Upper Whisker	Maximum	Std Dev	Count
1	1	0.3825322344	108
1	1	0.3530939318	56
1	1	0.4004714203	106

region	Minimum	Lower Whisker	First Quartile	Average	Median	Third Quartile	Upper Whisker
Continental Europe	0	0	1	1.9813084112	2	3	4
North America	0	0	1	2.0727272727	2	3	4
UK	0	0	1	1.9245283019	2	3	4



Upper Whisker	Maximum	Std Dev	Count
4	4	1.4535662612	107
4	4	1.245057569	55
4	4	1.143912361	106

A2Bee Club, MBA, SEMBA, HBVC  
 AAPI  
 ÃfÂ- sterreichischer Imkerbund  
 ÃfÂ- sterreichischer Imkerbund, Imkerschule Warth  
 ÃfÂ~stfyns Biavlerforening  
 ABF, EFB, HAS, State Associations.  
 ADA  
 ADAP, ASOPRAME,APIQUITUS, ASOPROAC  
 Airedale beekeepers association  
 Airedale BKA  
 Alameda County Beekeepers Association, Mount Diablo Beekeepers Association  
 Allegany Mountain Beekeepers ASsociation, Maryland State Beekeepers Association, Pennsylvania State Beekeeper...  
 Allegheny Mountain Beekeepers; Pennsylvania State Beekeepers; Maryland State Beekeepers  
 Amager biavlerforening, TÃfÂ¥rnby  
 Any? One? or how many. National or international? What is professional?  
 Apicoltura Etica e SolidarietÃfÂ AES Umbria, APAU, AAPP Toscane  
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 Apimarca  
 apimarca, apidolomiti  
 APIMIL  
 APIMONDIA  
 Apisole  
 Apivalpo AG  
 Aral  
 ARAL  
 Arap puglia  
 arpat  
 Aspromiele, SVETAP  
 Associazione Api e BiodiversitÃfÂ - Pietravairano (CE), segreteria@apiebio.it - tel. 3286657545  
 Associazione apicoltori della provincia di Bergamo  
 associazione apicoltori delle province toscane  
 Associazione apicoltori di Udine, Associazione ape carnica  
 associazione apicoltori parma reggio modena  
 Associazione Apicoltori Roma e Provincia  
 Assosiation "Bucovinian beekeeper"  
 Assosiation "Bucovinian beekeeper", "Union of beekeepers of Ukraine"  
 avi - honeybee valley  
 AVI KonVIB Mellifica Fort Knox Zwartebij.org American Bee Journal Kiwimana, TFB

## prof\_groups



AVI,Vlaamse bij

Baka, local association

Basic, Advanced, Queen Rearing

bbka

Bbka

BBKA

Bbka \_ Dorchester and Weymouth beekeepers association

BBKA / Beebase

BBKA and local association. IBRA

BBKA and local branches

bbka bibba

BBKA OBKA

BBKA, BDBKA

BBKA, BIBBA

BBKA, BIBBA, NBU, BeeBase

BBKA, IBRA

BBKA, National Bee Unit, DEFRA, BeeBase

BBKA, Shropshire BKA, Oswestry BKA, North Shropshire BKA, Ludlow BKA

BBKA, The Central Association of Bee-Keepers

BBKA; National Bee Unit; DEFRA.

Bee Farmers Association (UK)

Bee health days

Beekeepers association of Nigeria

Beekeepers of Wilkes

BNBKA, Cheshire Beekeepers

Boone Area Beekeepers Association - Columbia, MO      Missouri State Beekeepers Assn

Bornholms Biavlerforening

British Bee Keepers' Association; BeeBase National Bee Unit

British Bee Keeping Association,

British Beekeepers Association

British Beekeepers Association. Bee Farmers Association, National honey Show

British Beekeepers' Association (BBKA)

British Beekeeping Association

British beekeeping Association (BBKA)

British Beekeeping Association and affiliated local associations

British Beekeeping Association, Cambridgeshire Beekeepers Association

BRITISH BEEKEEPING ASSOCIATION, ESSEX BEEKEEPER DENGIE AND MALDON BEEKEEPER

Brityish Beekeeperts' Association

cari

## prof\_groups



CBKA BBKA SBKA WBKA
COLOSS
Consorzio Apistico provinciale di Ancona
Consorzio Eugubino Gualdese (Umbria)
Danmarks biavlerforening
Danmarks Biavlerforening
danmarksbiavlerforening/nord vestsjællandslands biavlerforening
dansk biavler
DBF
DBF Kjellerup
de Mandelbie/Roeselare - de Kasteelbie/Ingelmunster - Deinse Imkersbond/Deinze - KonVIB/Vlaanderen
de rosse bie, avib, vbi
Dorchester and Weymouth Beekeepers' Association, British Beekeepers' Association, National Bee Unit, BIBBA, IBRA
EAS
Eas, ABF, PA State Beekeepers
EAS, LIBC, VA state beekeeping association
erhversbiavlerne
Essex Bee Keeping Association. Cambridge Bee Keeping Association
Essex Beekeepers Association, British Beekeepers Association
Essex BKA
Ethiopian Beekeeping Association(EBA), Ethiopian Honey Board Association (EHBA)..etc
European professional beekeepers association
Fai - ABRUZZO
flakkebjerg
Flakkebjerg herreds biavlerforening
Gammel Roskilde Amts Biavlerforening
Gas, arnia onlus, alpa
GKVK, agricultural science university
Gl. Roskilde Amts Biavlerforening (Danmarks Biavlerforening)
Grindsted og Omegns Biavlerforening
Gruppo Api Sparse
Gruppo Api Sparse APS, Alpa, Aral, Associazione Apicoltori Alto Lazio
GTAB
Høj-Taastrup Bilaug
Haderslev og omegns biavlerforening
Halsnæs Biavlerforening
Hammel
henrik_norup@hotmail.com
Holbæk



## prof\_groups



Honey Bee Health Coalition
IBA, IVBA, Have an on line mentor
IBRA, COLOSS, Iranian beekeeping assosiation, Danish beekeeping assosiation
IL Beekeepers Association, Central Eastern IL Beekeepers Association
International Bee Research Association
IPM4Bees Midwest Working Group
Kamloops Beekeepers, Western Apiculture Society, BC Honey Producers Association
Kent Beekeepers association
Konvib
KonVIB - AVI - Honeybee Valley
KonVib, AVI
KONVIB: Vlaamse Imker
KS Honey Producers, MO State Assoc. NE KS Beekeepers, ABF
lancaster bee keeping
LIBYAN ORGANIZATION FOR HONEY BEES REARING .
Local Beekeeping Association
Local Beekeeping Group, VA State Beekeepers Association
Loudoun Beekeepers Association (LBA)
ludlow beekeepers
maldon and dengie bee keeping association
marcangelofolchi@virgilio.it
Mellifica, Honeybee Valley, Konvib, Avib, Zwartebij.org, AVI, VBI, American Bee Journal, Kiwimana, TFB, Bee Culture...
Memphis Area Beekeepers
Michigan state university
National Diploma in Beekeeping, British Beekeeper's Association, Welsh Beekeeper's Association
nbka
NC State Beekeepers Association
NCSBA, Chatham County Beekeepers Association
nessuna
New River Valley Beekeepers
NEWBKA
Non ricordo il nome
NordsjÃlÃlandske Bivenner
North Carolina State Beekeepers Association; Eastern Apicultural Society
North Central Beekeepers Association in Central MN
North London Beekeepers (linked with the British Beekeepers Association)
North London Beekeepers Association
North London Beekeepers, British Beekeepers' Association
north staffordshire beekeepers' association

prof\_groups

Northampton beekeeping association National Honey Bee Monitoring Scheme Bee Base National Bee unit
Northeast Oklahoma Beekeepers Association
NVBA
NWPA Beekeepers
NY Bee Wellness
nz beekeeping inc
Oregon Beekeepers, Tualitin Valley Beekeepers
PA State Beekeepers Assoc, EAS, honeybee Health coalition
Pennsylvania Beekeepers Association, Susquehanna Beekeepers Association
Please see my responses to your survey on Varroa
Produttori apistici di Bergamo
sahn
Salling/Fjends biavlerforening
SAR
Scottish Beekeepers' Association
SEMBA, NWNJBA. Blackswamp beekeeping association
Sheffield beekeepers association (uk)
Shoqata e Bletërritësve Tirane-Beekeepers Assocation of Tirana
Skjern Egvad Biavlerforening
Slovak Beekiping Association
SNA, UNAF, FNOSAD, GDSA72
SUPRS
Syndicat les Amis des Abeilles d'Indre-et-Loire, Groupement de Défense Sanitaire Apicole d'Indr...
Tennessee Beekeepers Assoc
The Beekeepers of Indiana, Bee Town Bee Club, Bedford Beekeepers, 10o'clock Beekeepers Association
The Danish Beekeepers Associations
Too many to list
toscana miele
Toscana Miele
Tri County Beekeepers Assoc.
UKBKA, RBKA (Local)
uli@apicon.info
Unaapi, aapi
unapi.aapi
UNION DES UCHRS WALLONS-ECOLE NAMUROISE D'APICULTURE-AAIJE
Union Royale des Ruchers Wallons Belgique apicole babeilles Cari fédération ration apicole Belge
Union royale des ruchers wallons et fédération ration apicole Belge
urw - rucher école berloz
Wake County Beekeeping, NC State Beekeeping

**prof\_groups**



WAS, CSBA
WBKA and BBKA
wdbk edbka bbka
WDBKA
West Cornwall Beekeepers
Wirral Beekeepers -Cheshire Beekeepers Association
Wisconsin Honey Producers
Worcestershire BBKA

Workshop and Training on Proboscis Extension Response Conditioning of Honeybees. Organised by KSU and ASU ...

Bee diseases -Queen Rearing

"Sustainable development of beekeeping in Ukraine"

17

2 ans cours d'apiculture + Œlevage de reine

2 ans de formation au rucher Œcole de berloz

2 courses

2019 Bee health day organised by Defra

3

a lot

ŒWorkshop on ŒNutritional and Therapeutic Uses of Honey Bee Products (Bee venom)Œ Faculty of A...

Advanced Beekeeping Husbandry

afbr cognition course, numerous seminar days

alessandro2168@gmail.com

algemene cursus bijen houden.

Allevamento api Regine, produzione polline e pappa reale . Cure e lotta alla varroa

Annual bee disease awareness training course in Scotland

Apicoltura 1e 2 livello

Apicoltura base

attend meetings bbka

Autodidatta

Basic assessment, local sessions

Basic Beekeepers exam - UK

Basic Beekeeping

Basic Beekeeping (BBKA), various natural beekeeping courses

Basic beekeeping course

Basic Beekeeping Course, numerous bee ŒhealthŒ™ days and seminars at our association and BIBBA/BBK...

Basic certification through university

Basic training run by a branch of the BBKA

Basic Training, ongoing lectures

Basic, Swarm control, Queen rearing

Basis cursus, koninginneteelt, bijenziekten, bijenproducten

BBKA

BBKA advanced Husbandry, BBKA module 3

BBKA Basic Assessment

BBKA Basic, BBKA General Husbandry, NBU disease day

BBKA Basic, Modules 1,2 and 3

BBKA correspondence course - all modules for advanced theory

BBKA Courses and examinations
BBKA module training sessions; NBU Bee Health training; YBKA General Husbandry; BIBBA queen rearing
BBKA modules 1 - 7
BBKA Modules 1, 2 3, 6
BBKA modules including honeybee health, pests, diseases and poisoning and BBKA Honeybee health exam
BBKA modules, BBKA Qualified Beekeeper
BBKA Modules. annual spring convention
BBKA one day health courses, BBKA modular exam courses
BBKA pests and diseases module
BBKA Spring Convention
Bee Basic Certificate plus training classes
Bee breeding, Bee keeping, Mating control, Pest management, Queen rearing
Bee conference at OARDC every year
Bee Health Day - Shillingstone
Bee Health day courses
Bee Health Days
Bee School, on line youtube videos, seminars, webinars
BeeBase online bee health training (DEFRA), various workshops & lectures at BBKA & BIBBA conferences
Beginner Course
beginner course, advanced course, teaching natural beekeeping
Beginner's course on management of bees
Beginners at both Essex & Cambridge Associations
Beginners beekeeping course
beginners beekeeping course @ allegheny college, various seminars ie queen grafting and rearing, etc
beginners course
Beginners course
Beginners Course
beginners course, swarm collection, healthy bee day
Beginners training
Beginners, intermediate, 1 day sessions, workshops
Beginners' Beekeeping course
Beginners' Beekeeping Course, Bee Health Days
Beginning beekeeper class, 2nd year beekeeper class, Numerous on line classes
Beginning Beekeeping
Beginning Beekeeping, Weekend seminar
Begynder kurset
begynder og udvidet biskole ved den lokale biavlerforning i Vejle
begynderkursus
Begynderkursus

Begynderkursus biavl, bes<sup>3</sup>g af kyndig biavler f<sup>3</sup>r salg af bier.

bibba healthy queen rearing

British Beekeepers Association Master Beekeeper

British Beekeeping Basic beekeeping

British BKA Modules, Yorkshire BKA Modules

BTSF

conf<sup>3</sup>rences ponctuelles <sup>3</sup> th<sup>3</sup>me

Conf<sup>3</sup>rences, publications, ancien agent sanitaire apicole

corsi di vario livello presso un centro di formazione locale

Corso apicoltura generale, corsi fino al 3 livello, corso apicoltura professionista

Corso apicoltura patrocinato dalla reg. Toscana, corso esperto apistico al CREA api, vari corsi tenuti dall'associazion...

corso base + avanzato

corso base di apicoltura, giornate formative sulle patologie apistiche, corso di analisi sensoriale del miele

Corso base e Alto organizzato dal mio associazione

Corso Base, Corso di Il livello, Corso Esperto Apistico, Corso di Produzione Gelatina Reale, Corso di Analisi Sensoria...

Corso base, corso patologie apistiche, corso selezione e allevamento delle api regine, corso pappa reale, corso poll...

Corso base, Fad online

Corso di apicoltura di I livello; corso fad sulle interazioni tra api e ambiente (organizzato da izsler)

Corso di I livello, Corso di Il livello, convegni e incontri formativi organizzadi dall'Istituto zooprofilattico Lazie e Tosc...

Corso di introduzione alla apicoltura

Council "Union of beekeepers of Ukraine"

couple of modules, basic and attended couple of health days including microscopy day

cours en deux ans et 12 ans d'enseignant apicole

Course on Afb and Afb run by government bee inspectors

Courses by Beekeeping Association of Slovenia (CZS)

CRA API

crea bologna esperto apistico

Curso de iniciaci<sup>3</sup>n ap<sup>3</sup>-cola de la universidad de Chile

CURSO VIRTUAL SANIDAD APICOLA OIRSA

Cursus beginnend imker, cursus gevorderd imker, lesgeverscursus natuurlijk imkeren, Black Box Beekeeping,

cursus beginners, gevorderde, koninginnenteelt, voordrachtgever bijenteelt, assistent bijenteelt, keurmeester bijen...

D&WBKA Beginners Course, BBKA Module 1, NBU Bee Health Days

EAS conferences

EAS Conferences

Eastern Apicultural Society in US

er p<sup>3</sup> kursur hvert <sup>3</sup> i Flakkebjerg

Facolt<sup>3</sup> di agraria PG

formation initiale, Formation sp<sup>3</sup>cifique, Brevet (en cours)

formazione universitaria

## bee\_train



foundation course

HAS conferences, KS & MO spring and fall conf., NE KS Beekeepers Fun Day

Ho affiancato per tre anni un mio amico apicoltore

Ho lavorato per diversi anni con un apicoltore professionista

ho una veterinaria che mi segue. Mettete nelle opzioni: chiamare un veterinario al sospetto di malattia pestosa

Honey bee foraging and diversity

Honey bee rearing technologies

Imkersopleiding 3 jaar - opleiding Koninginnenteelt

Ingen

inital new starter training

Initial beginners course

Initial training course run by local association. Various lectures.

Intro To Beekeepinbg

Introduction to beekeeping and one-off talks

Jeg kyndig biavler + deltager pÃfÂ¥ den ÃfÂ¥rlige biavlskonference + lokale kurser

Kurser i foreningen

Kurser som kyndig biavler

Kursus for nye biavlere

Kursus for yngre biavlere

kyndibiavler

kyndig biavl

kyndig biavler

Kyndig biavler

Kyndig Biavler

Kyndig biavler, assisterende biinspektÃfÂ¥r

Kyndig biavler, biinspektÃfÂ¥r, underviser pÃfÂ¥ kyndig biavlerkursus med Per Kryger

Kyndig biavlere

LBA Training coarse

Local classes

Local day course from national bee inspectors

Many

Many both by BBKA & by UK's Department for the Environment (National Bee Unit)

Microscopy; General Husbandry; Queen Rearing.

Modules on: Bee Health & Anatomy

Montana state masters course in beekeeping

Montana's Beekeeping Course

N/A

national bee unit bee health days, microscopy courses organised by BBKA and local beekeeper associations

National Bee Unit Healthy Hive courses

## bee\_train



National Diploma in Beekeeping
nbka beginners course
NBU Bee Health Day
nessuno
Nessuno
NON
non on afb/efb
Northampton beekeeping association Bee Base National Bee unit
Numerous courses provided by my local beekeeping association.
Numerous run by the National bee Unit (UK) and by BBKA
One Biodynamic beekeeping class and numerous workshops
Oregon Mater Beekeeper (Apprentice)
Please see my responses to your survey on Varroa
plenty of them
Preparation for BBKA modules 1,2,3,6
Primo corso di formazione, in attesa di uno di approfondimento
Randy Oliver seminar (scientificbeekeeping.com), UC Davis Honey and Pollination Center, EL NiÃ±o Bee Lab @U...
regular reading of specific bee health issues
Sanidad apicola
Seminar at Mann Lake
Seminari Associazione Apicoltori Professionisti Italiani, seminari Apilombardia, seminari Unaapi, crt unaapi, corsi Co...
several
Several at County level
Sygdomskursus 2019
The management of pollinator, bee disease and pest for food security (25 Nov - 06 Dec, 2013, Nairobi, Kenya
too many to list
Too many to list
Tous plein
Tous.
tramite unapi e aapi
U ofIL symposium, Association meetings
UKBKA modules, RBKA talks
UM Master Beekeeper
USDA-APHIS veterinary accreditation Bee Health module, VIN-CE Bee course.
Vari
Various college and university courses
WBKA Beginners Course .
Western PA Winter Conference (5 years), Attend Maryland Fall Conference. Attend local sponsored workshop for ou...
Western PA Winter conference in Pittsburgh, PA, local workshops by out local club





XXX

Yearly meetings for above

zie vragenlijst varroa

AFB should be regarded as far more serious than EFB. Your questions put them as equal. The UK destroy colonies with...  
 Again your questions would be better if they allowed some explanation in places. Antibiotics are not routinely available...  
 All AFB hives in the UK are controlled and destroyed by fire. We don't use antibiotics. NBU oversees our beekeeping - ie vet...  
 already get emails from beebase/bee unit/ defra

As you see there is a number of questions I didn't answer, and some of the one I answer, I wonder if I should have answered...  
 Biavle

De vraag: "Hoe vaak inspecteer je je netelroos tijdens het actieve seizoen? (Selecteer alstublieft het dichtst bij uw situatie)...  
 Det er tredje gang, jeg udfylder de generelle spørgsmål. Kunne I ikke en anden gang lagre dem eller sammenfatte...  
 Difficult to answer combined AFB and EFB questions as the treatment is different for them. In the UK we have bee inspectors...  
 excelente informacion

Found drop down menu confusing and may have given incorrect answers

I am a veterinarian and want to help beekeepers

I am an organic gardener of 47 years. My 3 hives are sited in my 1/2 acre organic garden of 37 years standing

I have been teaching beginner beekeeping courses for Allegany College of Maryland for 7 years

I have much more to learn!

I have not been able to get into my hives this year

I would like to improve my knowledge in honey bees disease and pest to help the beekeeper in my community .

I would like you to have separated the questions on AFB and EFB so that there was no confusion. We may do shook ...

If one of my hives had EFB or AFB I would immediately contact a bee inspector! In general by NOT opening hives I avoid...

In England and Wales we have a bee inspectorate service that regularly inspect our colonies for the presence of AFB...

In NZ it is compulsory to destroy all AFB infected colonies, also as yet we do not have EFB

In the last five years I am working in my master thesis and I have experience in Beekeeping (Queen breeding using drones...)

In the UK a government agency, the NBU, deal with any suspected outbreak of foul brood - a beekeeper simply notifies...

In the UK both AFB and EFB are notifiable diseases. We have to treat as the Bee Inspector dictates. AFB the colony is...

In the UK the only "treatment" for Nosema that's approved are comb changes (bailey) and then changing floors and ...

In the UK, beekeepers suspecting their colonies to be suffering from any of the foul broods are required to contact the...

In UK we destroy all colonies in apiary that are diagnosed with AFB. We shook Swarm colonies with EFB or destroy if...

Jeg bruger ikke medicin/ I use no medicine

Jeg har ikke kunnet svare på samtlige spørgsmål, da jeg heldigvis aldrig er stødt på nogen af spørgsmålene...

L'associazione di apicoltori nella mia regione è molto attiva sia nella formazione che nel supporto tecnico agli apicoltori...

Learned by working for a commercial beekeeper, not by attending training courses

Les contaminations de loques (européenne et américaine) sont souvent issues d'importations d'abeilles...

Mema Ervis

My answers about nosema were based on my experience with N. ceranae (I have never had cases with N. apis)

My answers seem like I don't care. That's not the case. I based my answers on my experience...

Nb UK already has such a nationwide service asked about in above question

never had EFB or AFB so can't really answer those questions from experience

No

none

None

Once again, the phrasing of the questions is ambiguous, inevitably affecting the answers you will receive.

onduidelijke vragen.

Sarebbe estremamente necessario che strutture deputate alla ricerca si interfacciassero di più<sup>1</sup> con gli apicoltori...

Since I have no experience of foul brood I have answered all of those questions "not useful". Does the question nee...

Some of the answers to previous questions would be different for AFB to EFB but they are lumped together in the q...

Some of these questions not relevant in UK. National Bee Unit has to be called to AFB or EFB and they destroy hives.

Sono un medico veterinario appassionato di apicoltura

The Foul brood questions were confusing since the response for EFB would be different for AFB. Antibiotics are not...

The Nosema showcase picture is inadequate for N.cerana. Historically N. apis produce clinical findings like that but, ...

The questions re EFB and AFB fail to recognise that in the UK they may be treated differently. Both are notifiable but...

The UK has a clear inspection and management scheme

This survey may not be very accurate since there were not "I don't know the answer" responses available. I left open...

Treatment regime in the UK for AFB requires destruction of all hives in the apiary. For severe cases of EFB, only the i...

UK NBU has shown antibiotic resistance in some EFB strains, treating on results of RNA strain needed

USDA level 2 accredited veterinarian and beekeeper.

very useful surveys

Warre hives inspections do not involve routinely opening the brood nest, but mainly rely on external observations, h...

Wat is netelroos

We see EFB in the UK and start with shook swarm and destruction of affected comb and sterilisation of boxes. We ta...

Where I've answered "based on your experience" questions, my experience is reading text books & advisories from...

You have grouped AFB and EFB together in your questions. Whilst EFB can be treated with shook swarm or on occa...

Your Nosema photo is only dysentery, doesn't necessarily mean Nosema