

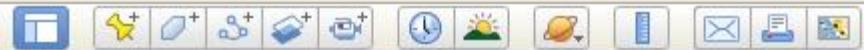


**TAANI MESINDUSEST  
COLOSS PROJEKTIST  
TALVEKAOD TAANI MESILATES  
VARROATOOSITÕRJE TÄHTSUSEST**



*Flemming Vejsnæs*

*Danish Beekeepers Association*



Data SIO, NOAA, U.S. Navy, NGA, GEBCO  
Image IBCAO  
Image © 2010 TerraMetrics  
Image © 2010 GeoContent

61°31'39.33" N 20°35'53.85" E niveau -16 m

©2009 Google

Øleghøide 2162.38 k



A satellite-style map of Denmark, showing the Jutland peninsula, the island of Funen, and the island of Zealand. The map is overlaid with a semi-transparent tan box on the left side containing text. The sea is a deep blue, and the land is a mix of green and brownish tones.

42.000 km<sup>2</sup>

5 mill  
inhabitants

7000 km  
coast line

700 islands

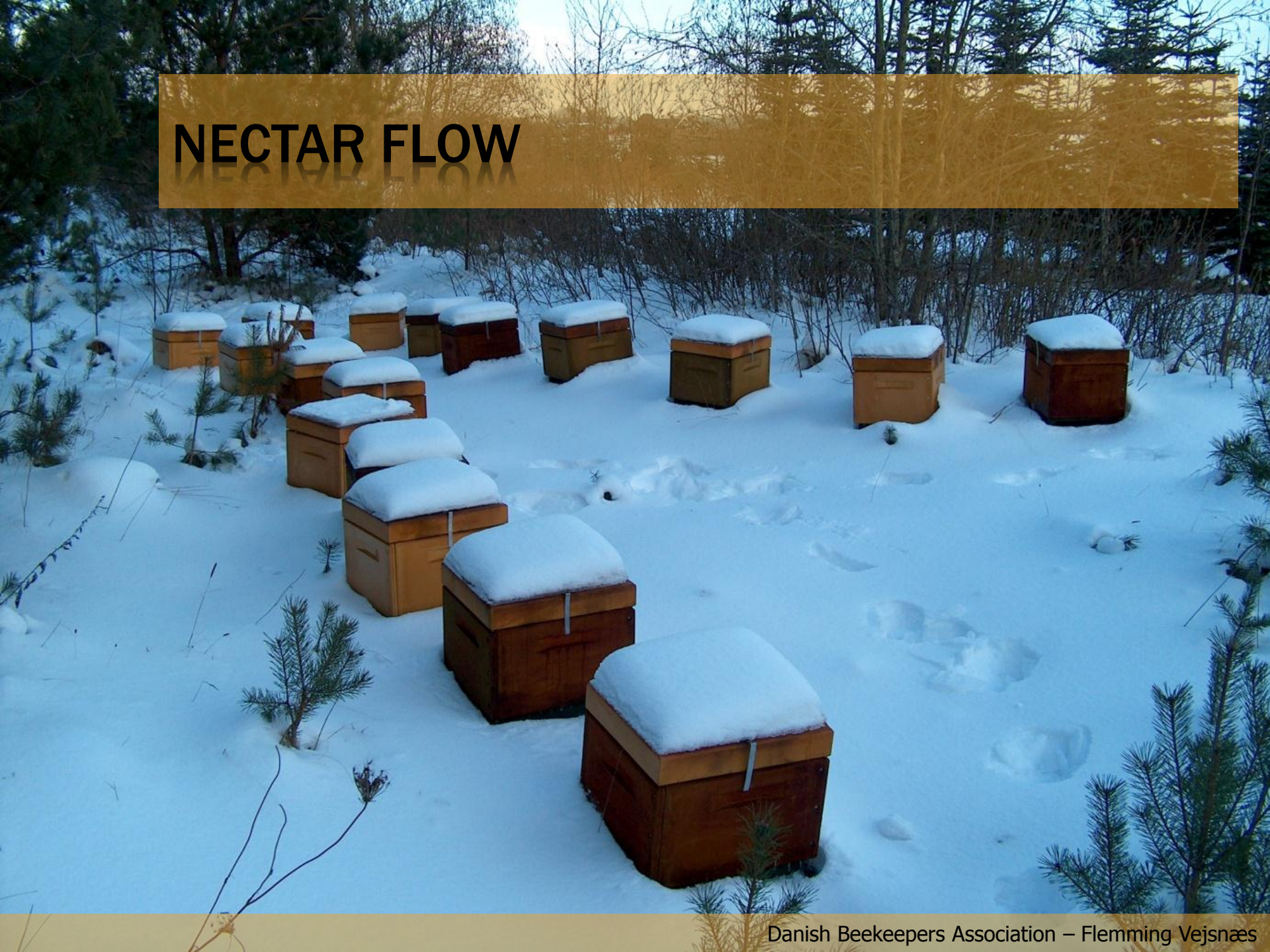
4000  
beekeepers



**A VERY BEUTIFUL COUNTRY -  
ANYWAY - BUT FARMLAND**



# NECTAR FLOW





SPRING



# SPRING





# WINTERRAPE

A close-up, low-angle shot of a winter rapeseed field. The image is dominated by vibrant yellow flowers and green stems, with a clear blue sky in the background. The text 'WINTERRAPE' is overlaid in the top left corner.



# CLOVER IN THE SUMMER



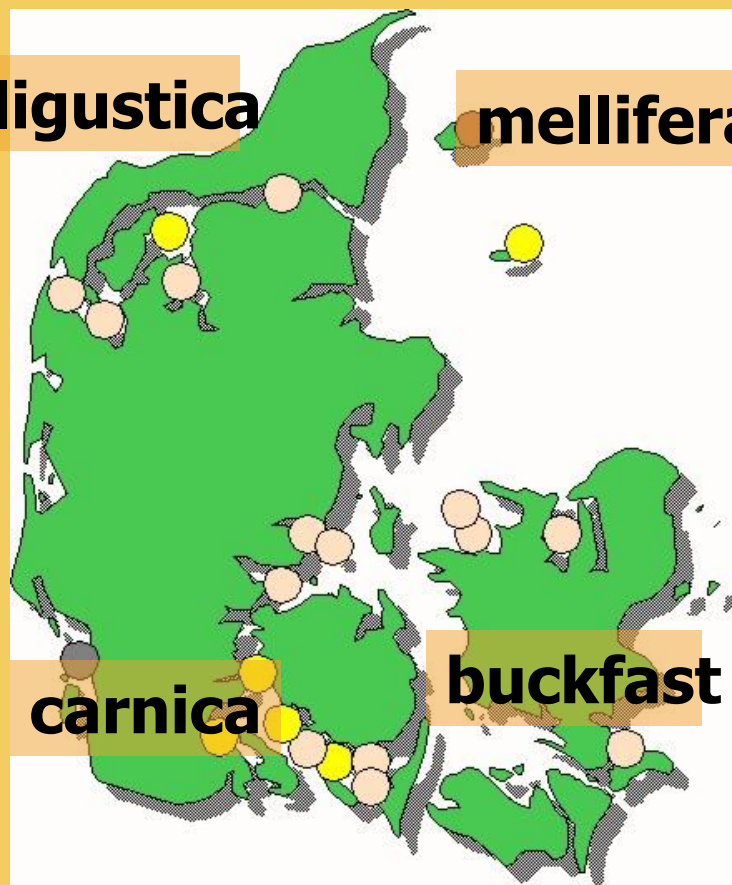


# HEATHER HONEY



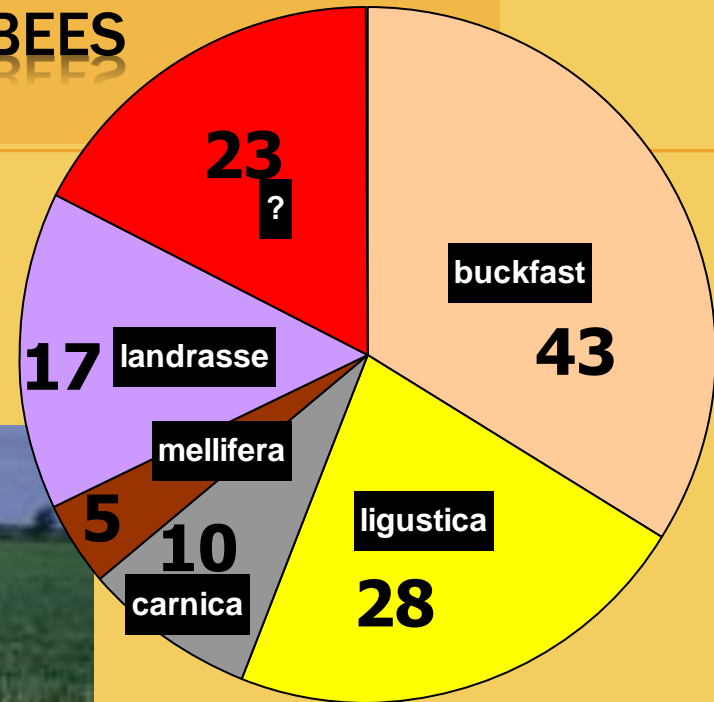


# BREEDING USING ISLANDS FOR ISOLATED MATING



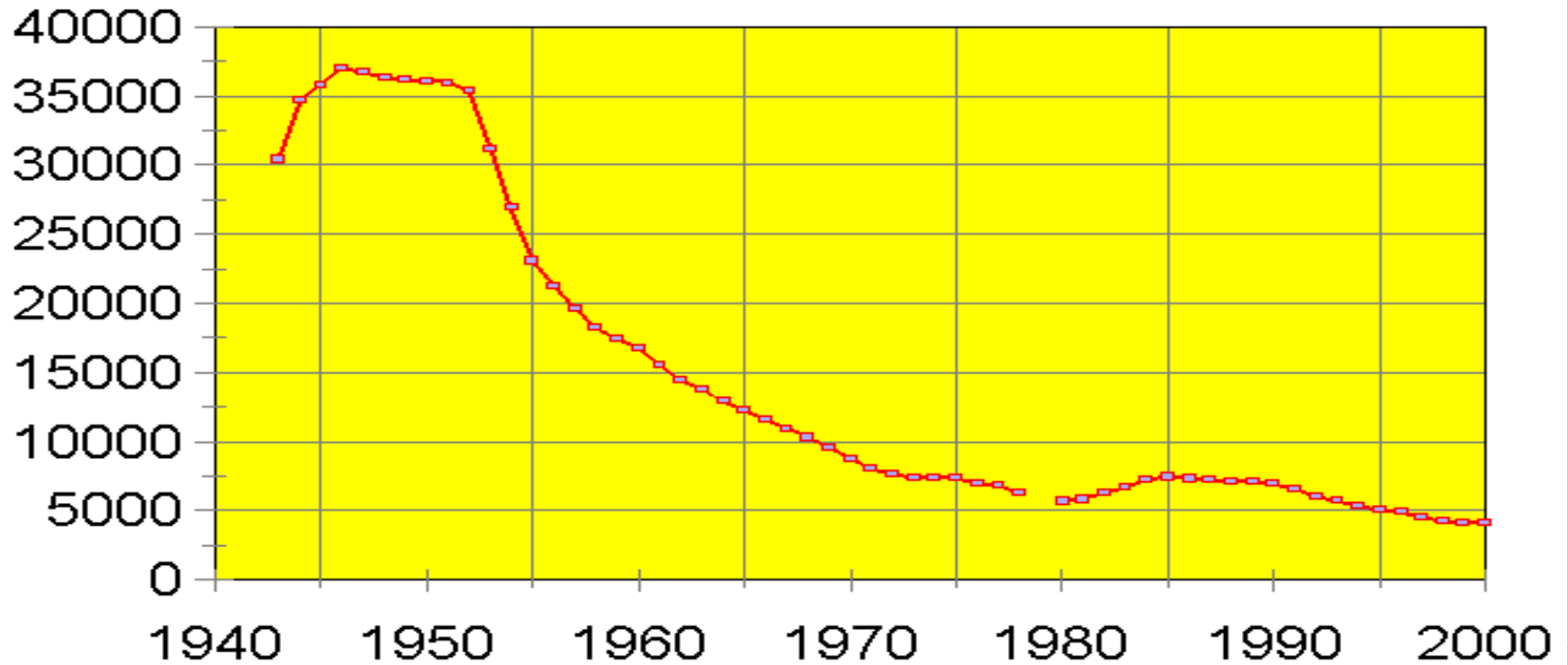


# BREEDING ON THE ISLANDS, RACES OF BEES



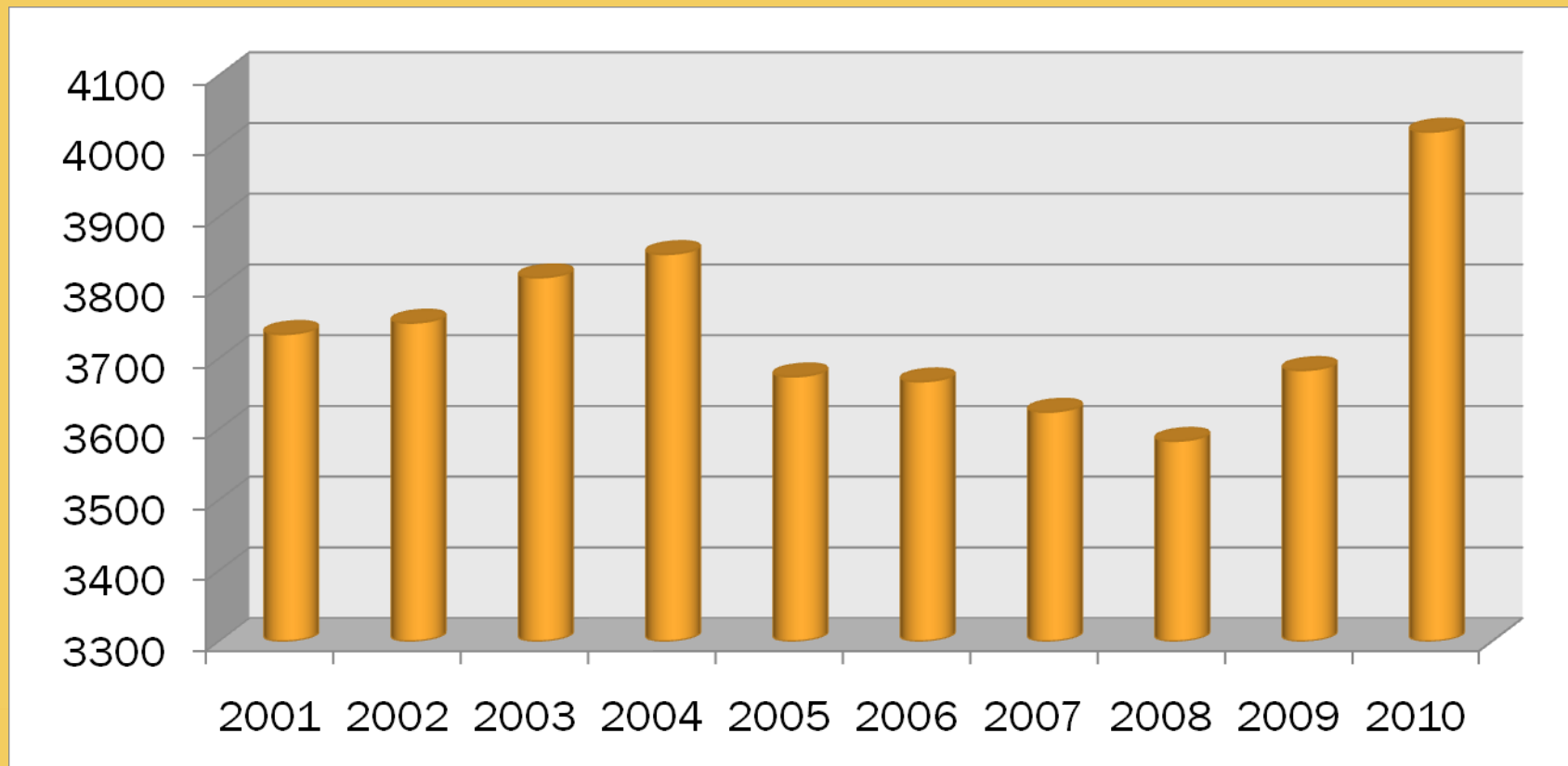
# NO OF MEMBERS

**Medlemstal for  
Danmarks Biavlerforening**



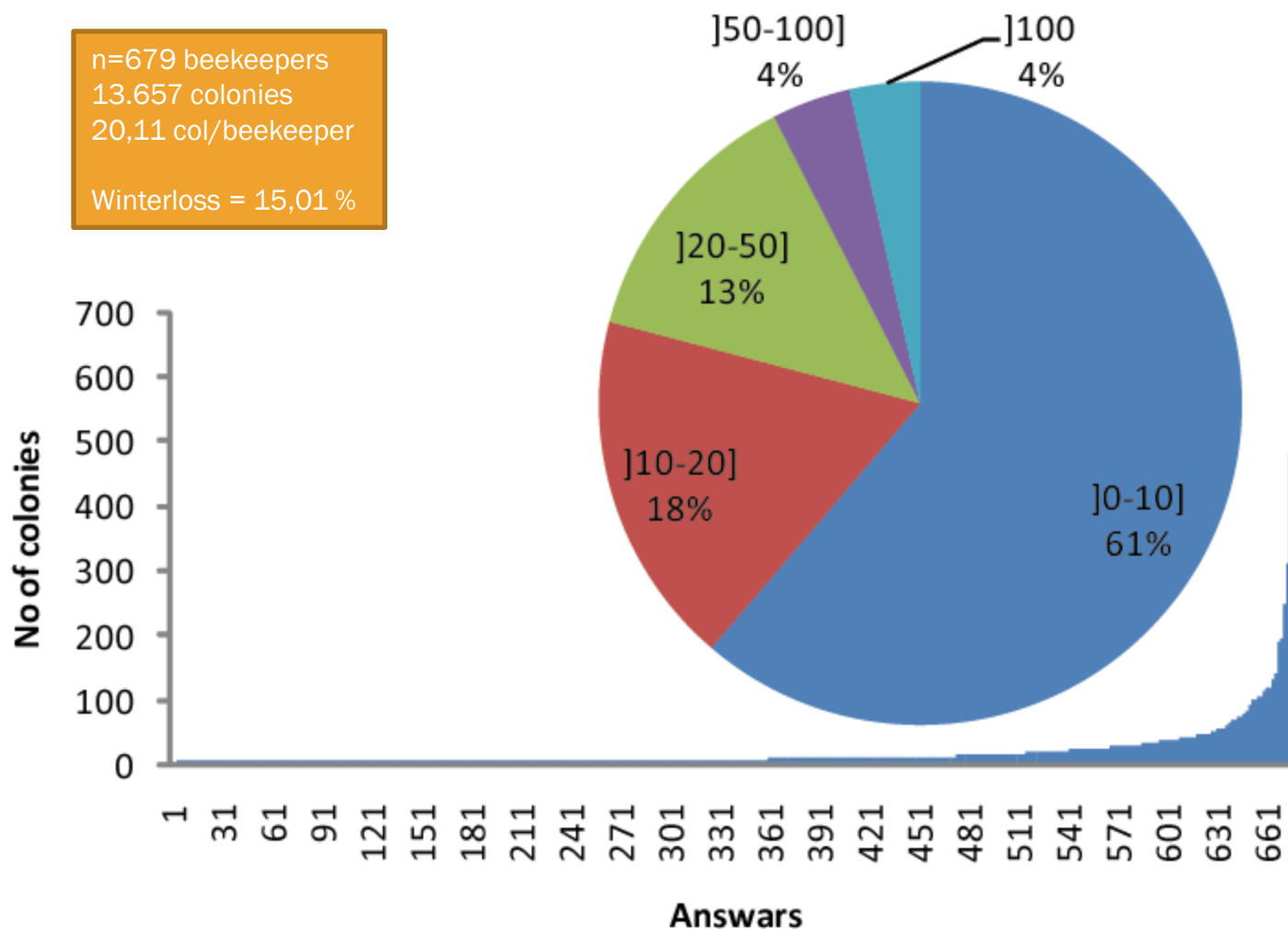


# NO OF MEMBERS



# BEEKEEPER STATISTICS SPRING 2010

n=679 beekeepers  
 13.657 colonies  
 20,11 col/beekeeper  
 Winterloss = 15,01 %

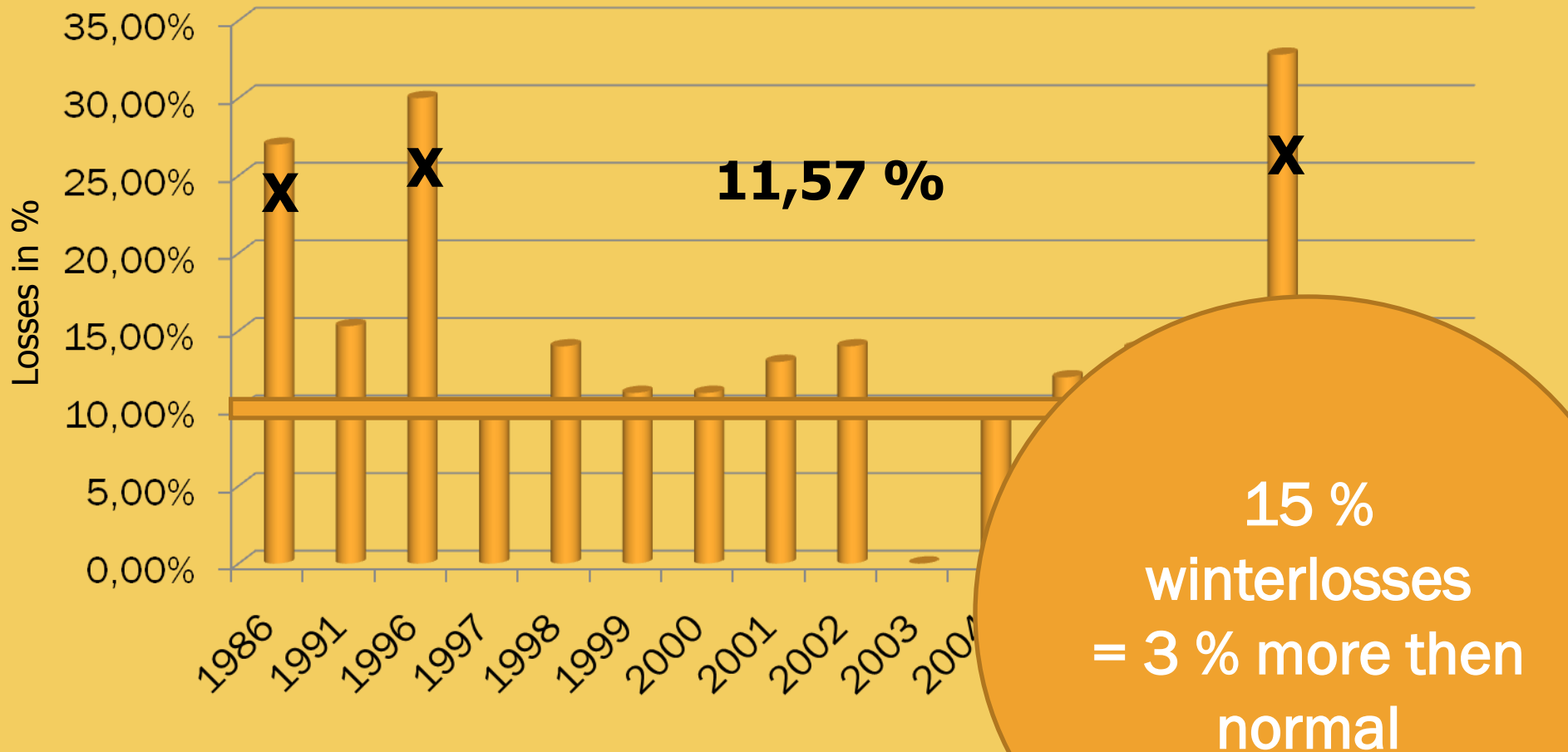




# LOSSES IN EUROPE 2008

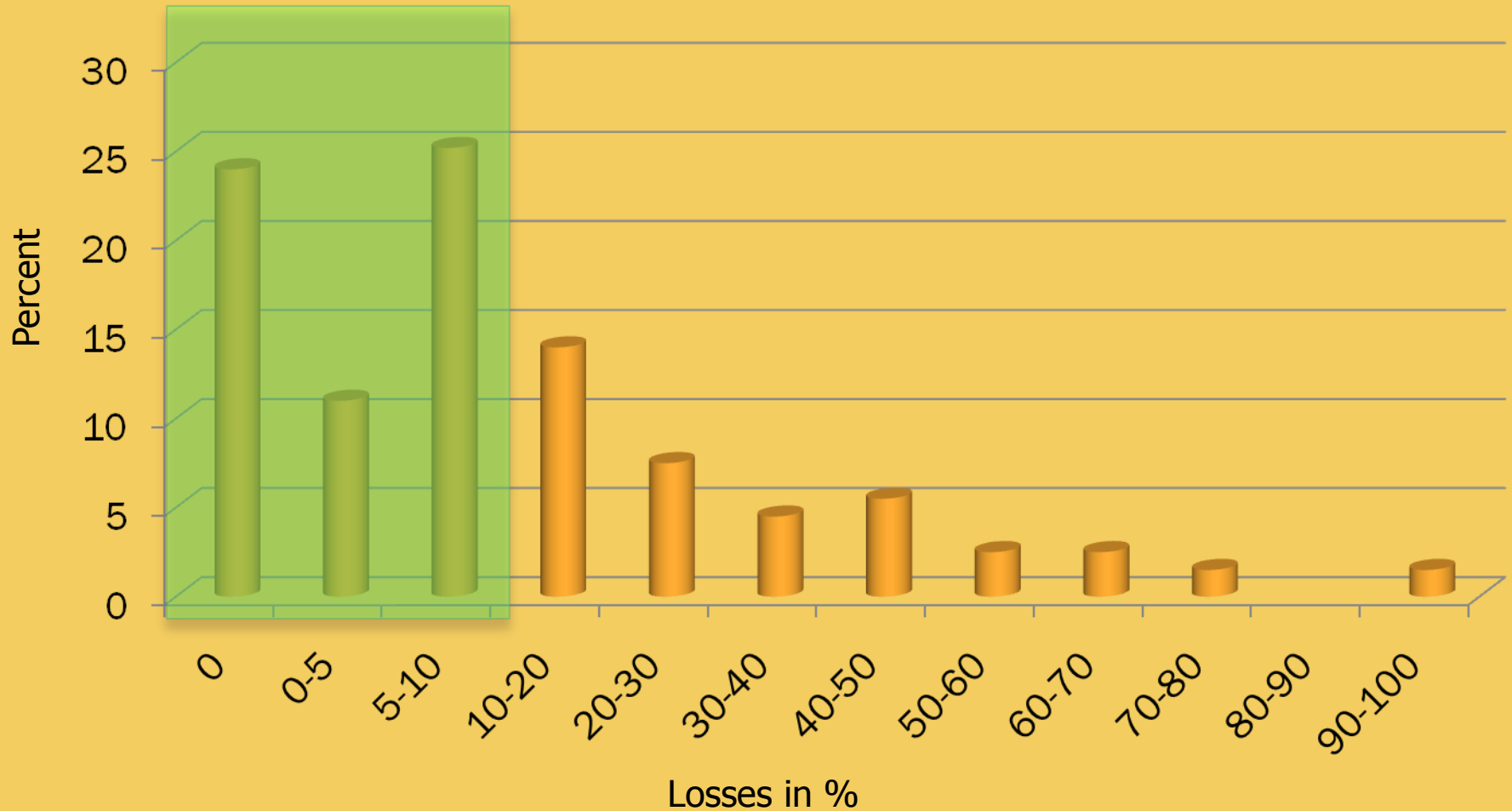


# LOSSES WITHOUT THE BIG LOSSES 1986 - 2010



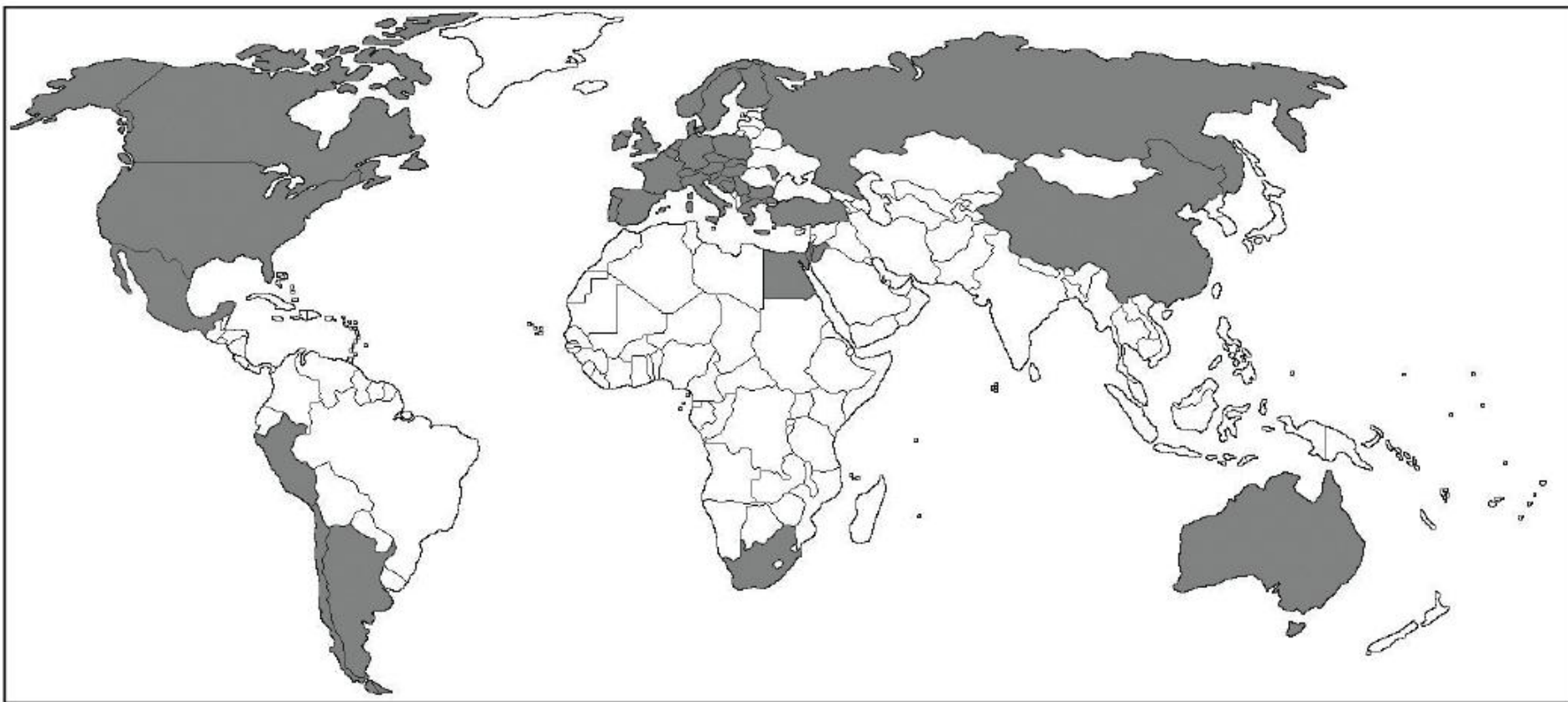


# 60% ONLY HAVE MINOR LOSSES IN 2008



# COLONI LOSSES NETWORK – COLOSS

## PREVENTION OF HONEYBEE COLONY LOSSES



*Fig. 3.* The global COLOSS network (“Prevention of honey bee COLony LOSSes”, consisting of 161 individual members from 40 countries (= grey areas).

Graphic Peter Neumann

# 214 MEMBERS – 51 COUNTRIES



# THE COLOSS NETWORK

- "WHY REINVENT THE WHEEL"

WG 1. MONITORING & DIAGNOSIS

WG 2. PESTS & PATHOGENS

WG 3. ENVIRONMENT & BEEKEEPING

WG 4. DIVERSITY & VITALITY



# INTERNATIONAL QUESTIONNAIRE

APIS e.V. Verein zur Förderung der Bienenkunde der Landwirtschaftskammer Nordrhein-Westfalen

Startseite | Inhalt | Impressum | Kontakt | Suche

Infobrief Bienen

Der nächste Infobrief erscheint am Freitag, 15. August 2009

- Infobrief 2009\_26 (39k) 17. Dezember 2009
- Infobrief 2009\_25 (139k) 04. Dezember 2009
- Infobrief 2009\_24 (160k) 06. November 2009
- Infobrief 2009\_23 (105k) 09. Oktober 2009 Korrektur 2
- Infobrief 2009\_22 (319k) 25. September 2009
- Infobrief 2009\_21 (102k) 04. September 2009
- Infobrief 2009\_20 (128k) 21. August 2009
- Infobrief 2009\_19 (44k) 07. August 2009
- Infobrief 2009\_18 (51) 24. Juli 2009
- Infobrief 2009\_17 (22k) 17. Juli 2009
- Infobrief 2009\_16 (70k) 10. Juli 2009
- Infobrief 2009\_15 (68k) 03. Juli 2009
- Infobrief 2009\_14 (28k) 26. Juni 2009
- Infobrief 2009\_13 (44k) 19. Juni 2009
- Infobrief 2009\_12 (45k) 12. Juni 2009
- Infobrief 2009\_11 (56k) 05. Juni 2009

Am Bienenstand

Ein Jahr geht zu Ende, ein neues Jahr beginnt

Die nächste Infobrief erscheint in 4 Wochen Freitag, 15. Januar 2010.

WAS ZU TUN IST: Varroaentfernung

IN COLLABORATION WITH BEEKEEPERS

QUICKLY GATHER DATA

25 COUNTRIES  
15,066 QUESTIONNAIRES  
638,927 COLONIES OF BEES  
300,000 SINGLE DATA

THE DANISH QUESTIONNAIRE

**Sommertrachternte 2010**  
Ernteergebnisse Sommerfrucht 2010 und Zustand der Bienenvölker

Home | Impressum | Kontakt

Wie beurteilen Sie Ihre diesjährige Sommertrachternte im Vergleich zum langjährigen Mittel (bitte ankreuzen)?

-3 deutlich schlechter  
 -2 schlechter  
 -1 etwas schlechter  
 0 durchschnittlich  
 +1 etwas besser  
 +2 besser  
 +3 deutlich besser  
 weis nicht

Wieviel Kilogramm Sommerblüten-/Sommertrachthonig (einschließlich eventueller Sortenhonige) haben Sie in diesem Jahr durchschnittlich je Volk geerntet? Bitte nur Zahlen und Komma eingeben, kein Text wie z.B. "kg"

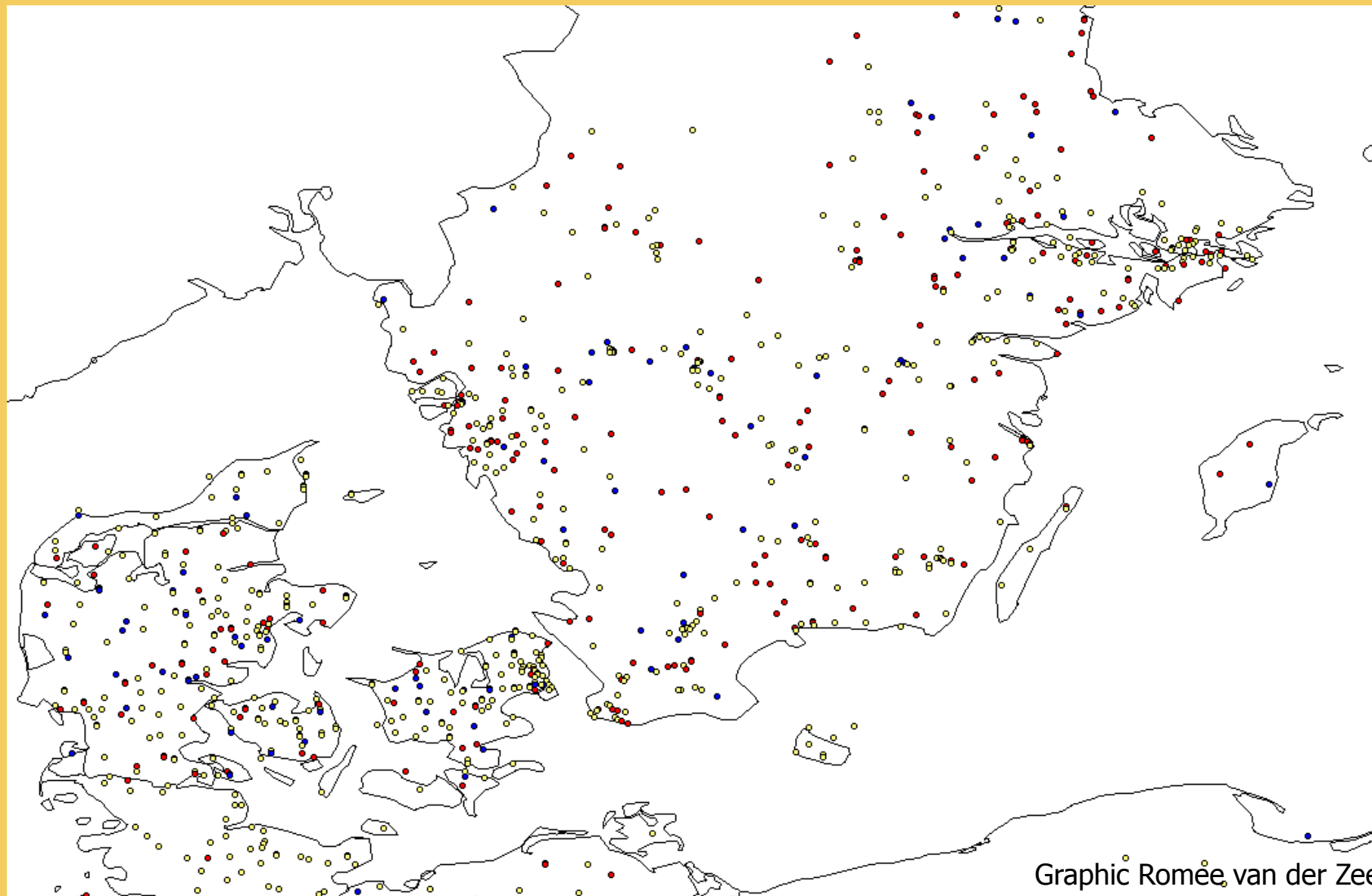
Konnten Sie Waldhonig ernten?

nein  
 ja  
 weis nicht



# European Monitoring: Overwintering 2008-09

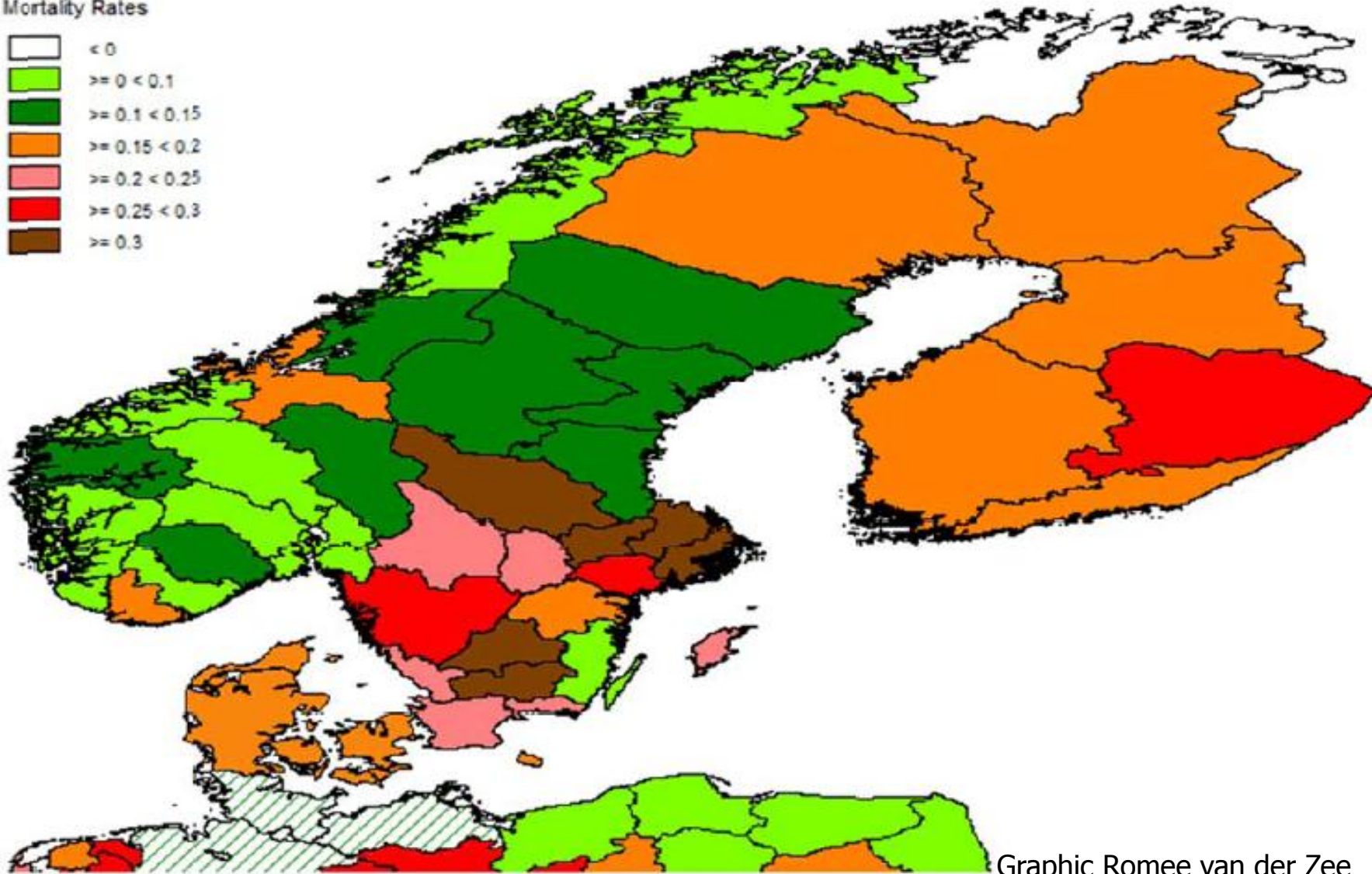
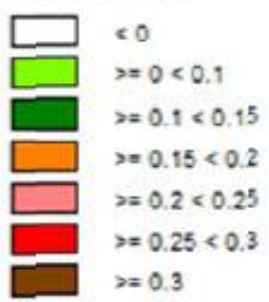
Overwintering Mortality, patterns Denmark-Sweden.



Graphic Romée van der Zee

# Denmark, Norway, Sweden and Finland

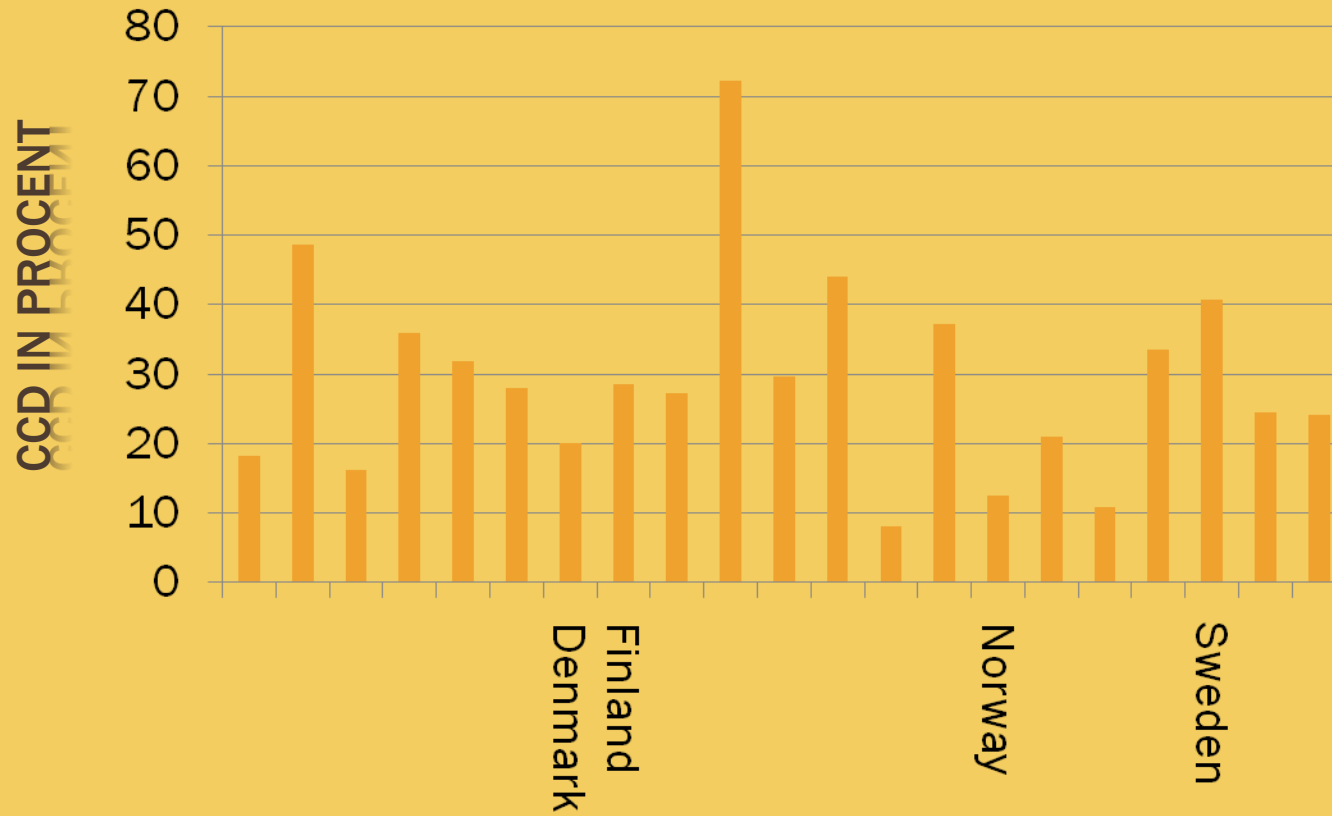
Mortality Rates



Graphic Romee van der Zee

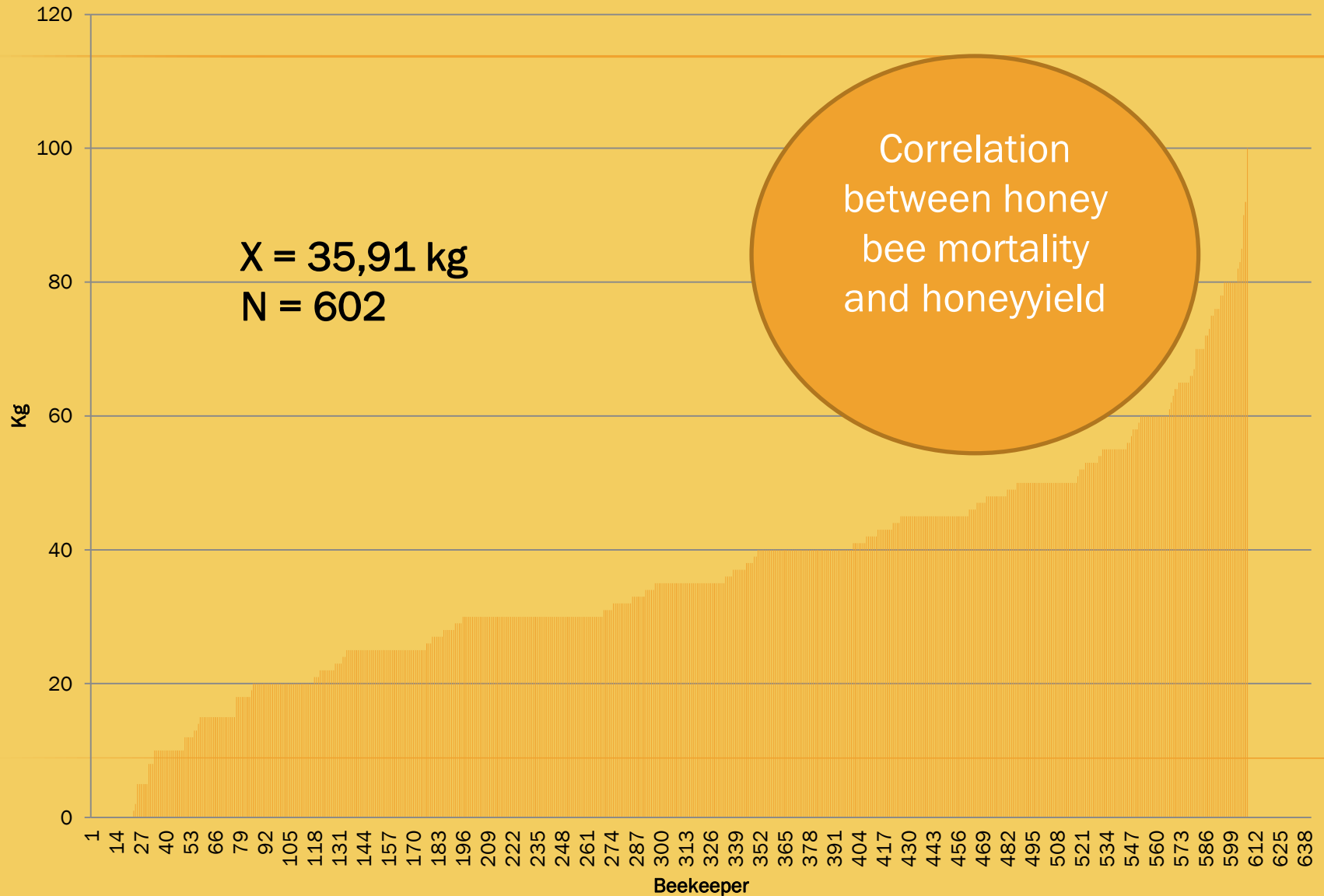


# CCD



*Coloss WG 1 2010 in preb*

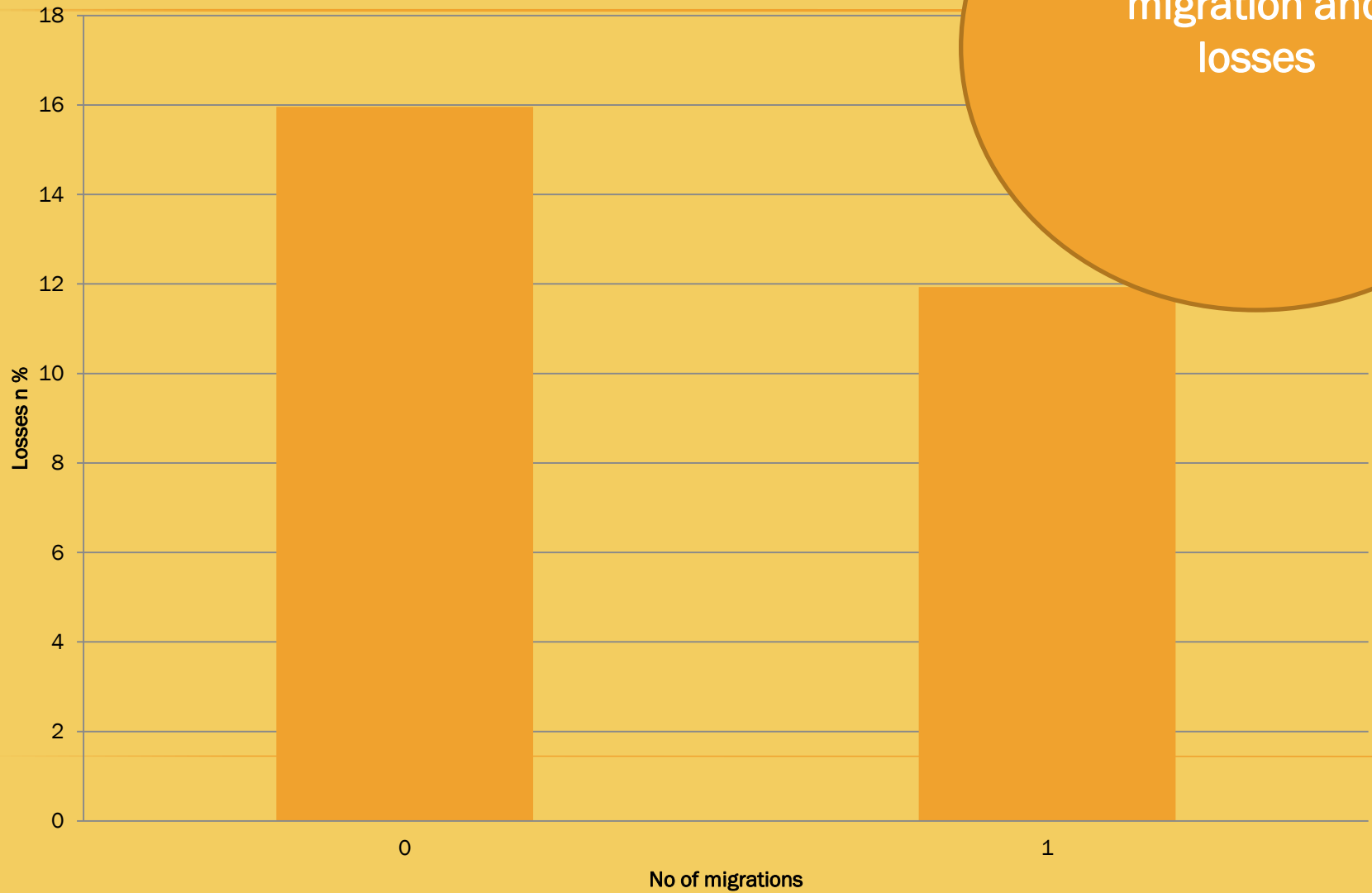
# Honey harvest 2009



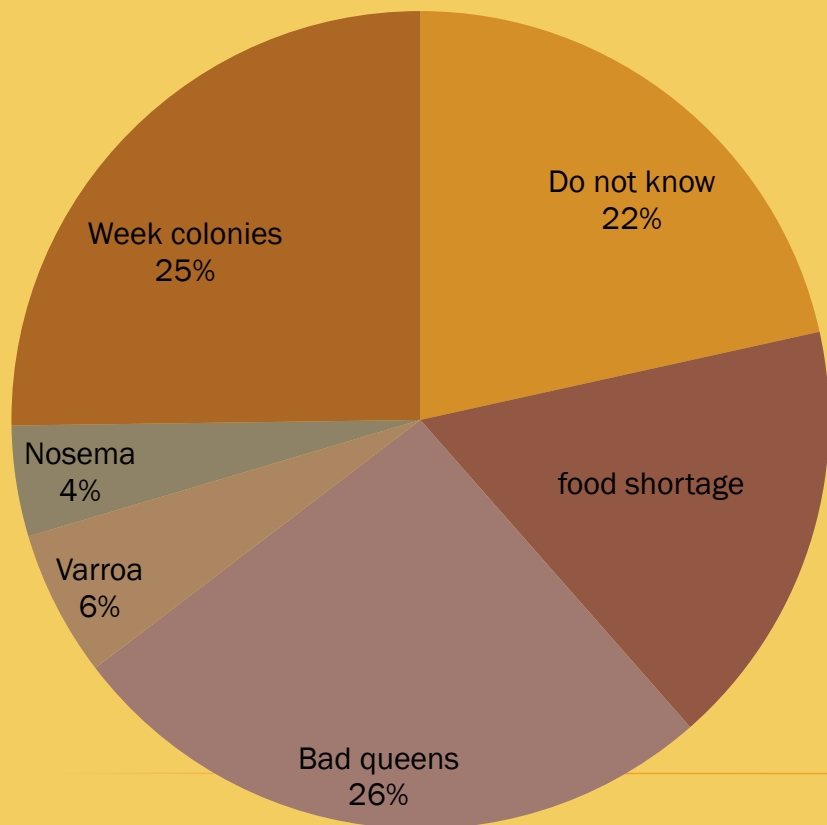


## No of migrations

Correlation between migration and losses



## Beekeepers own rating - why your bees die



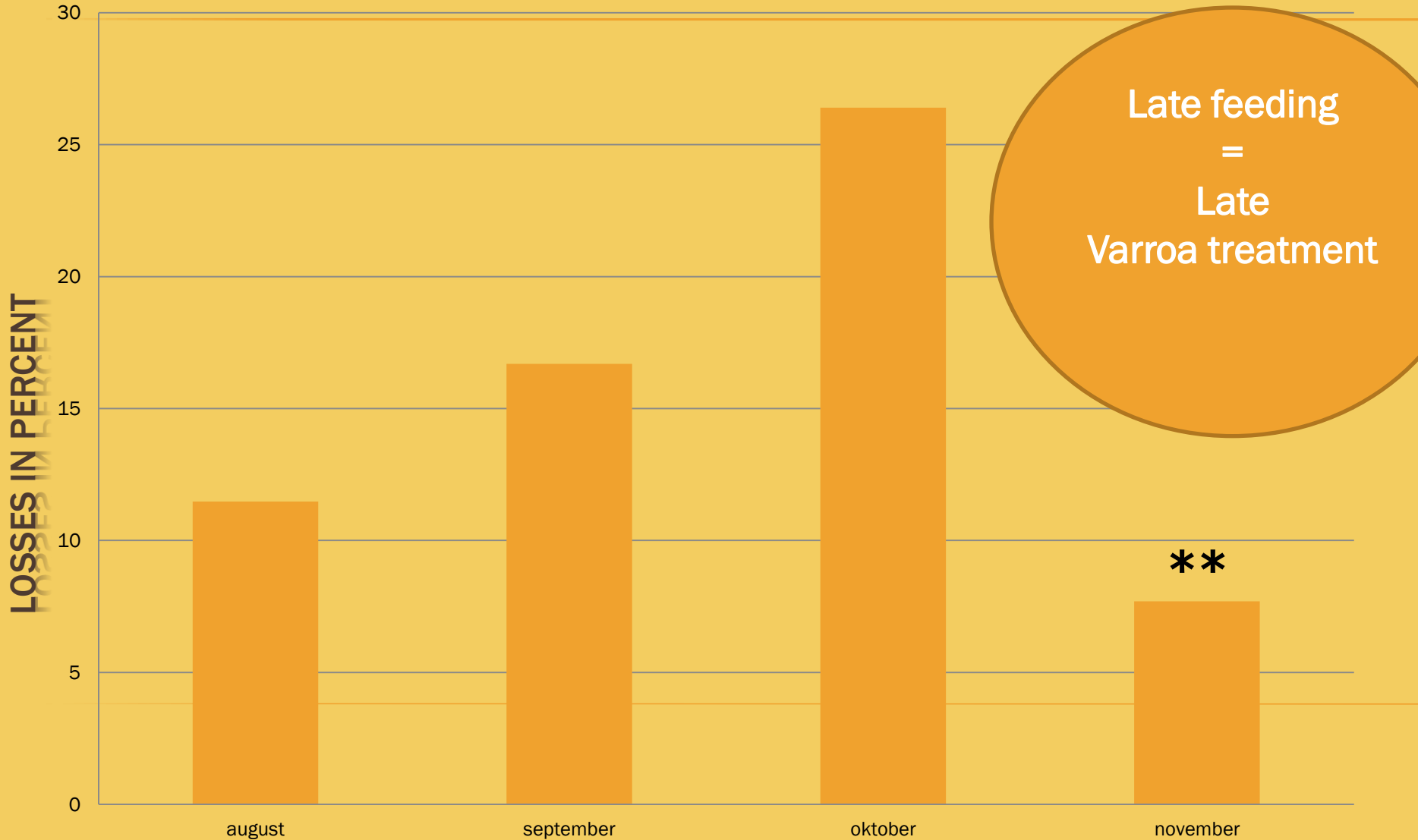
152 OTHER  
EXPLANATIONS

VIRUS  
MOUSE  
SNOW  
WASPS  
BIRDS  
VANDALISM  
DYSENTERY

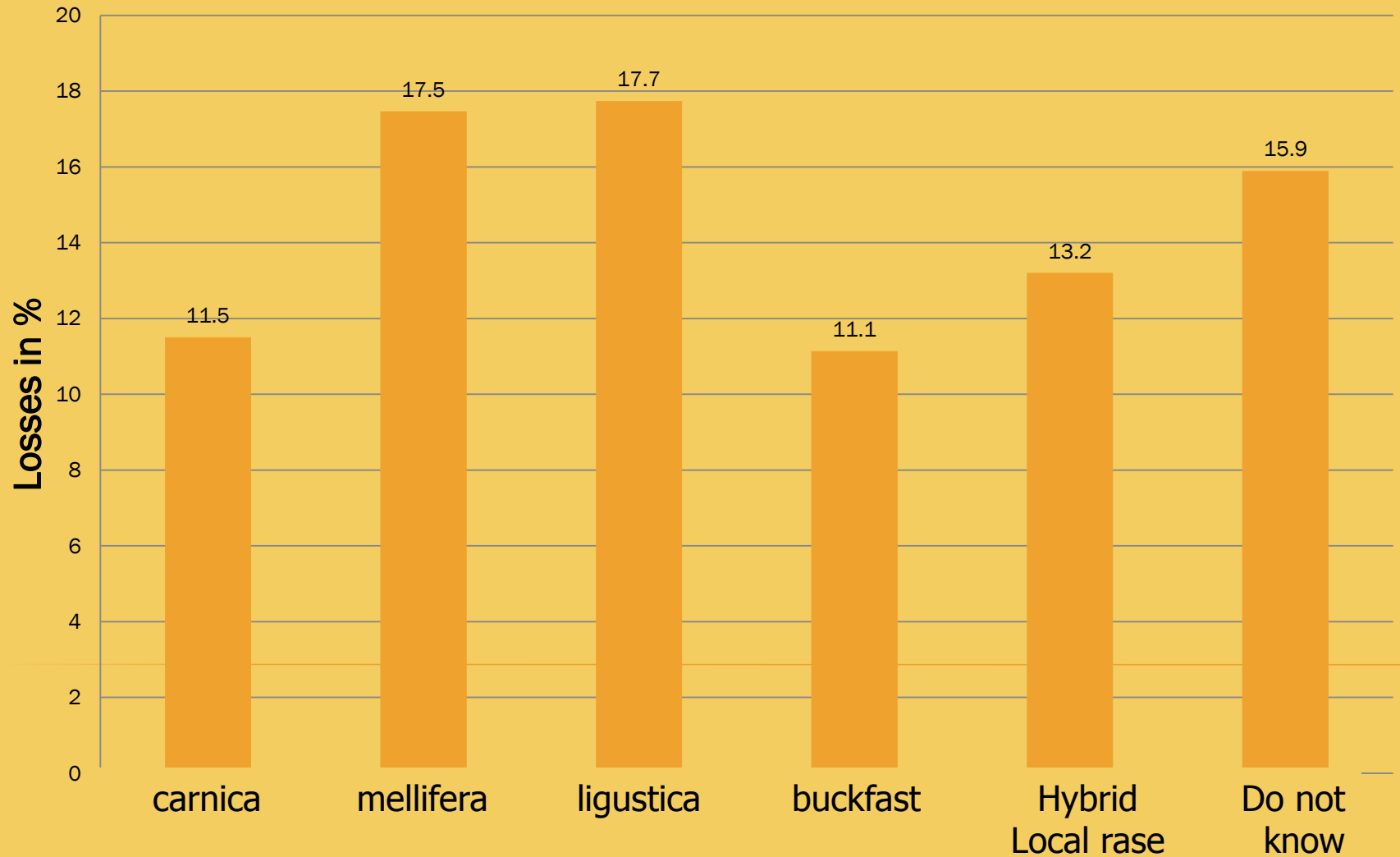
Many  
explanations.  
Varroa is no  
problem



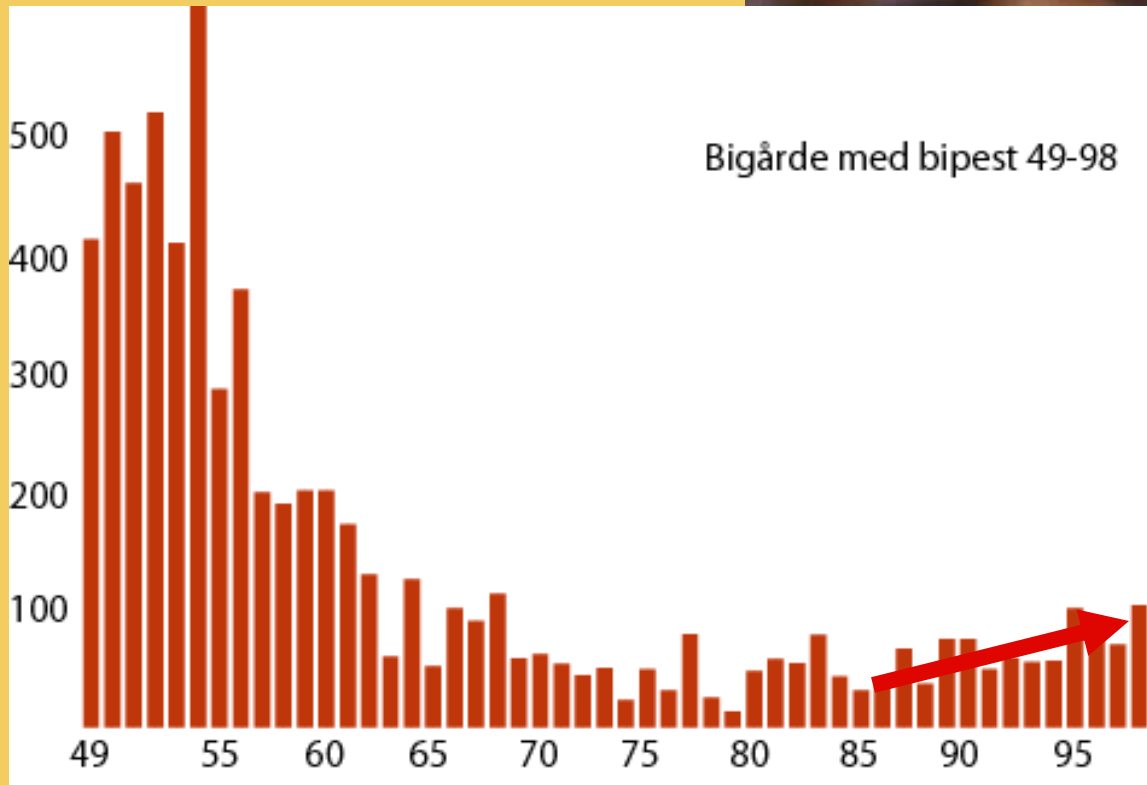
## Winterlosses compared to feeding time



## Winterlosses compared to bee race



# American foulbrood in DK



Særnr.: Offentlig bekæmpelse af bisygdomme i 50 år. Tfb 5/99



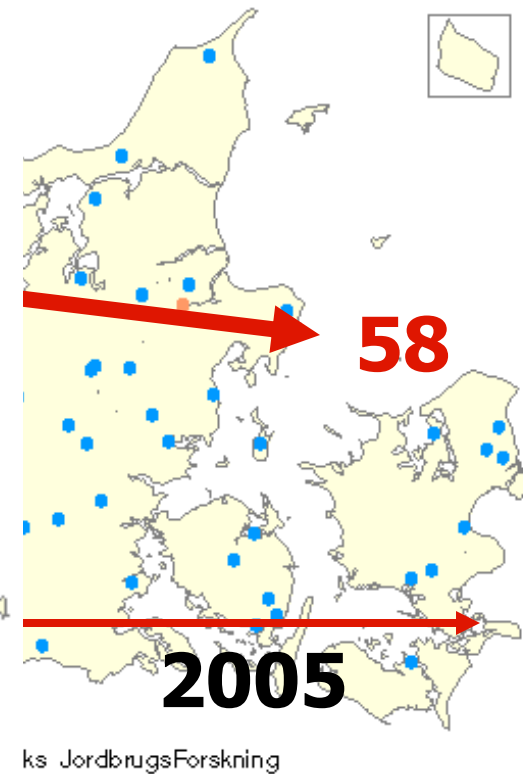
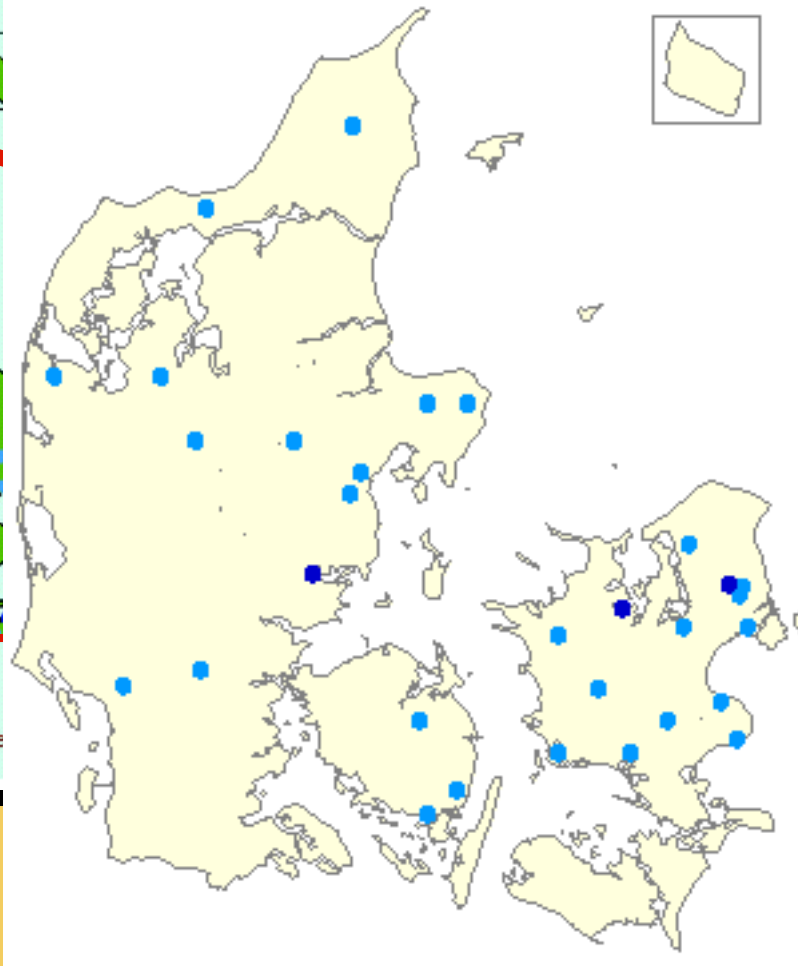
# American foulbrood in DK

Figur 2. Antallet af pesttilfælde steg frem til år 2000 (133 tilfælde (Brødsgaard og Hansen TfB

10/2000 side 356)) men er herefter faldet frem til

Ondartet bipepest pr. 12/10/2009 ( n= 36 )

Ondartet bipepest pr. 24/10/2005 ( n= 58 )



0.38 % 258. år.

# VARROA – THE MAIN PROBLEM

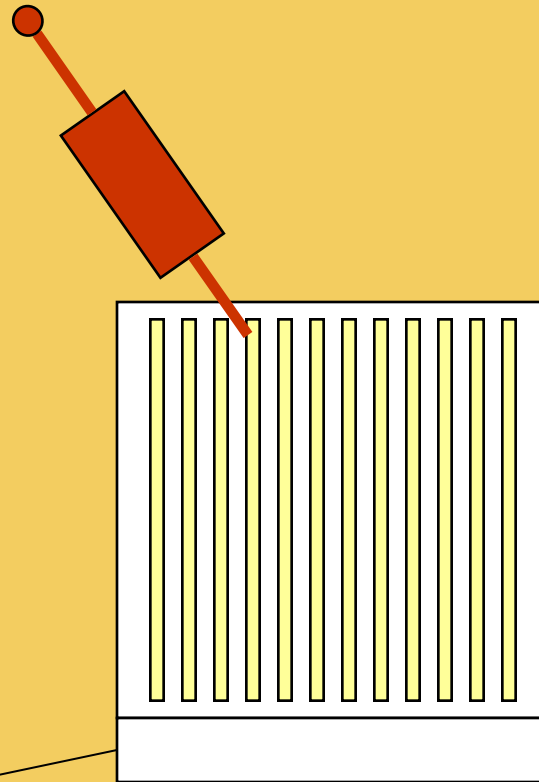
## Varroa mite



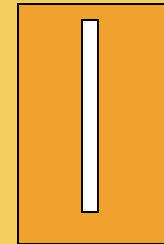
© Scott Camazine  
Penn State University

# VARROA COMBAT STRATEGY

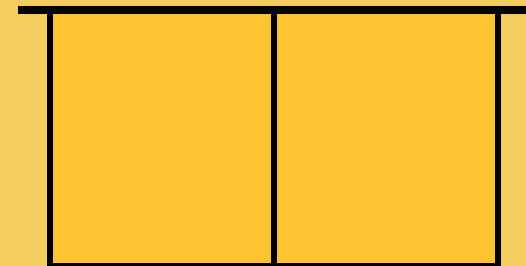
**3. Oxalic trickling**



**Mitecounting**



**2. Krämerboard**

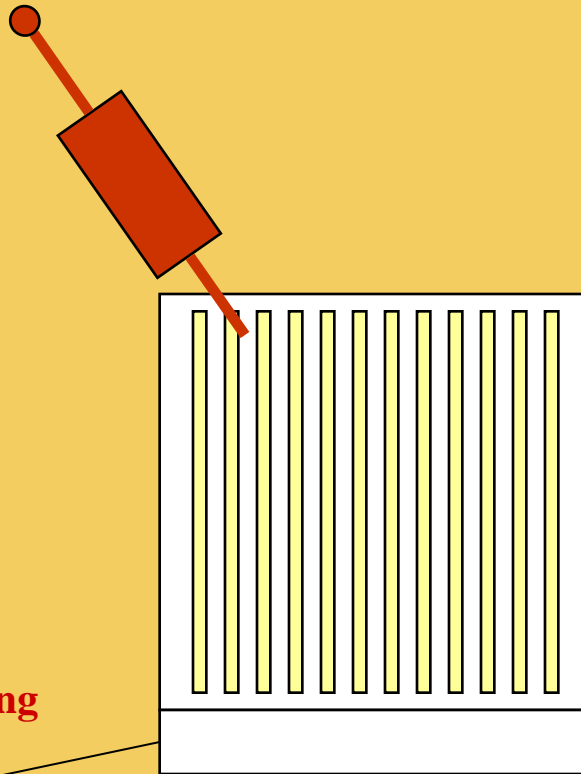


**1. Drone brood removal**

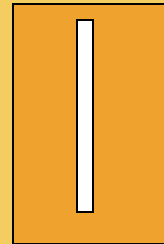


# VARROA COMBAT STRATEGY COMMERCIAL BEEKEEPER

**1 and 3  
Oxalic  
trickling**

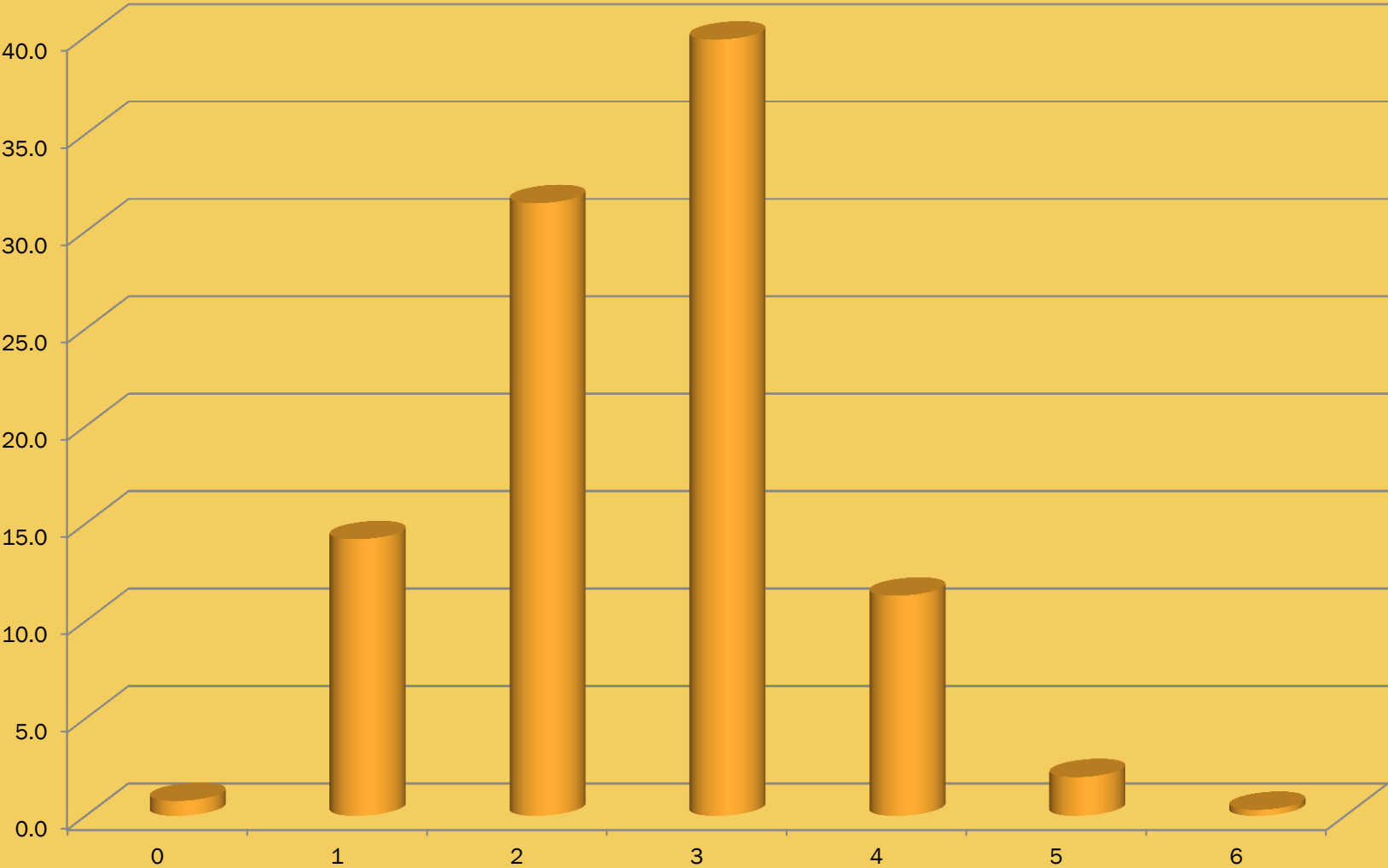


**Mitecounting**

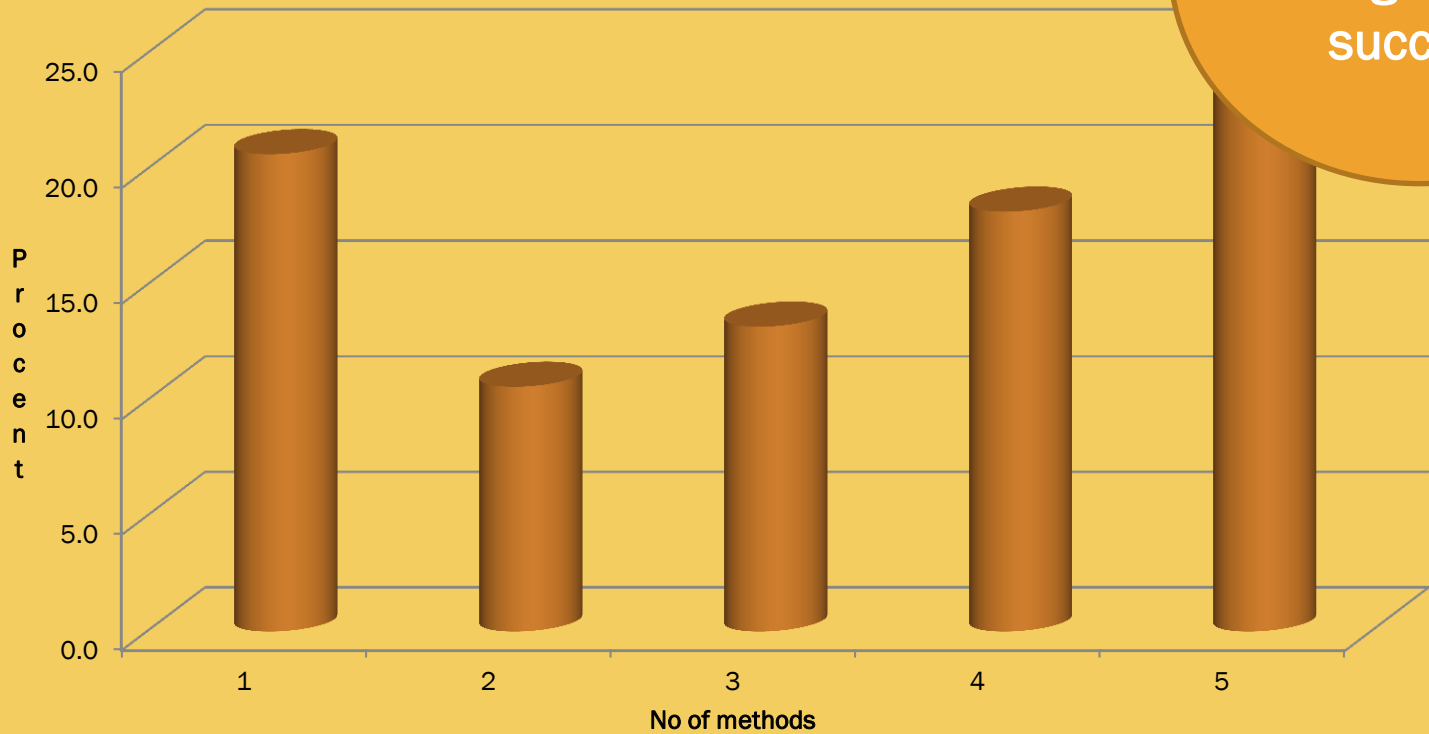


**2.  
Krämerboard**

# NO. OF TREATMENTS



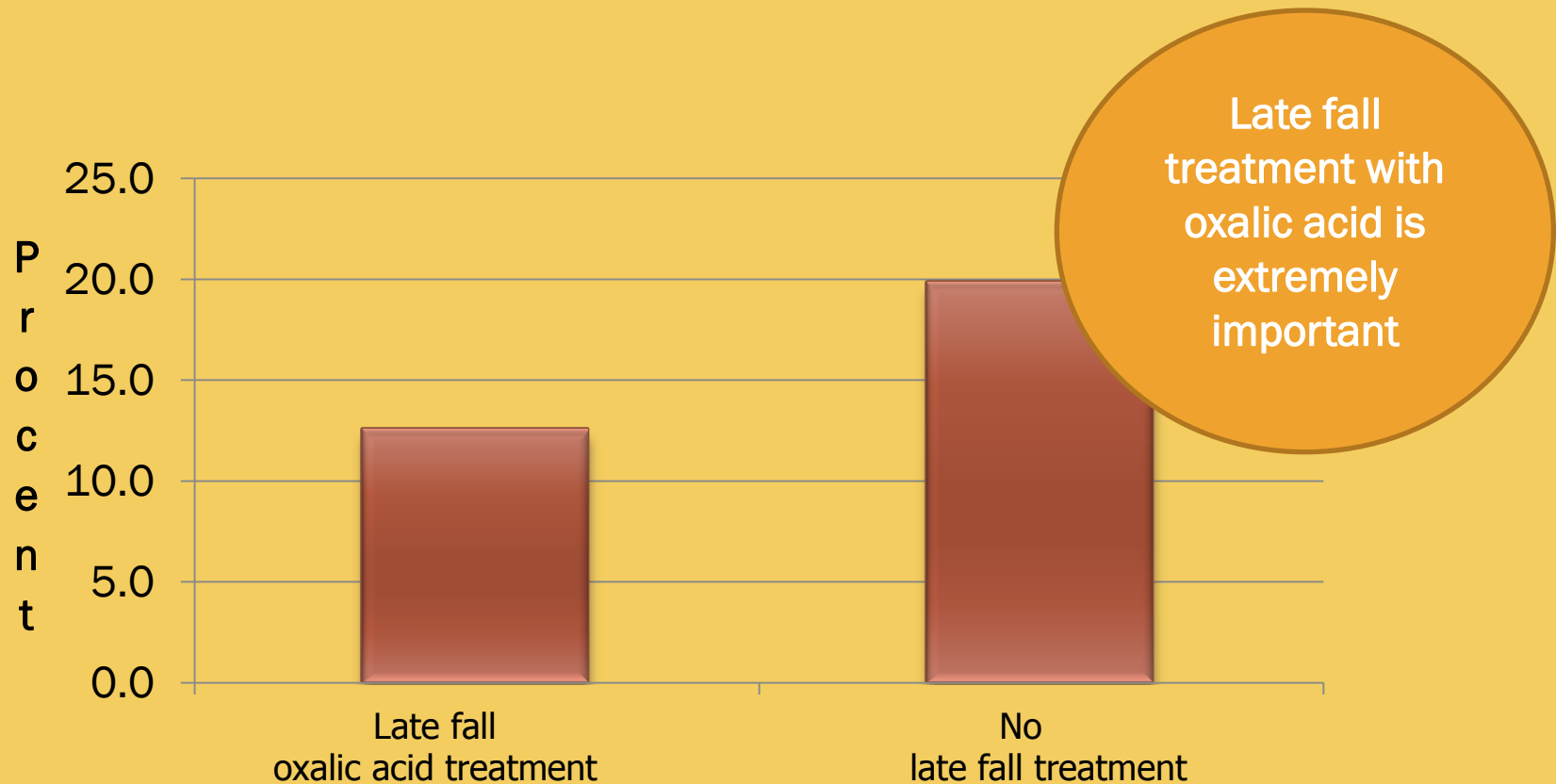
# NO. OF VARROA-TREATMENTS



Using 2 or 3 methods give the greatest success



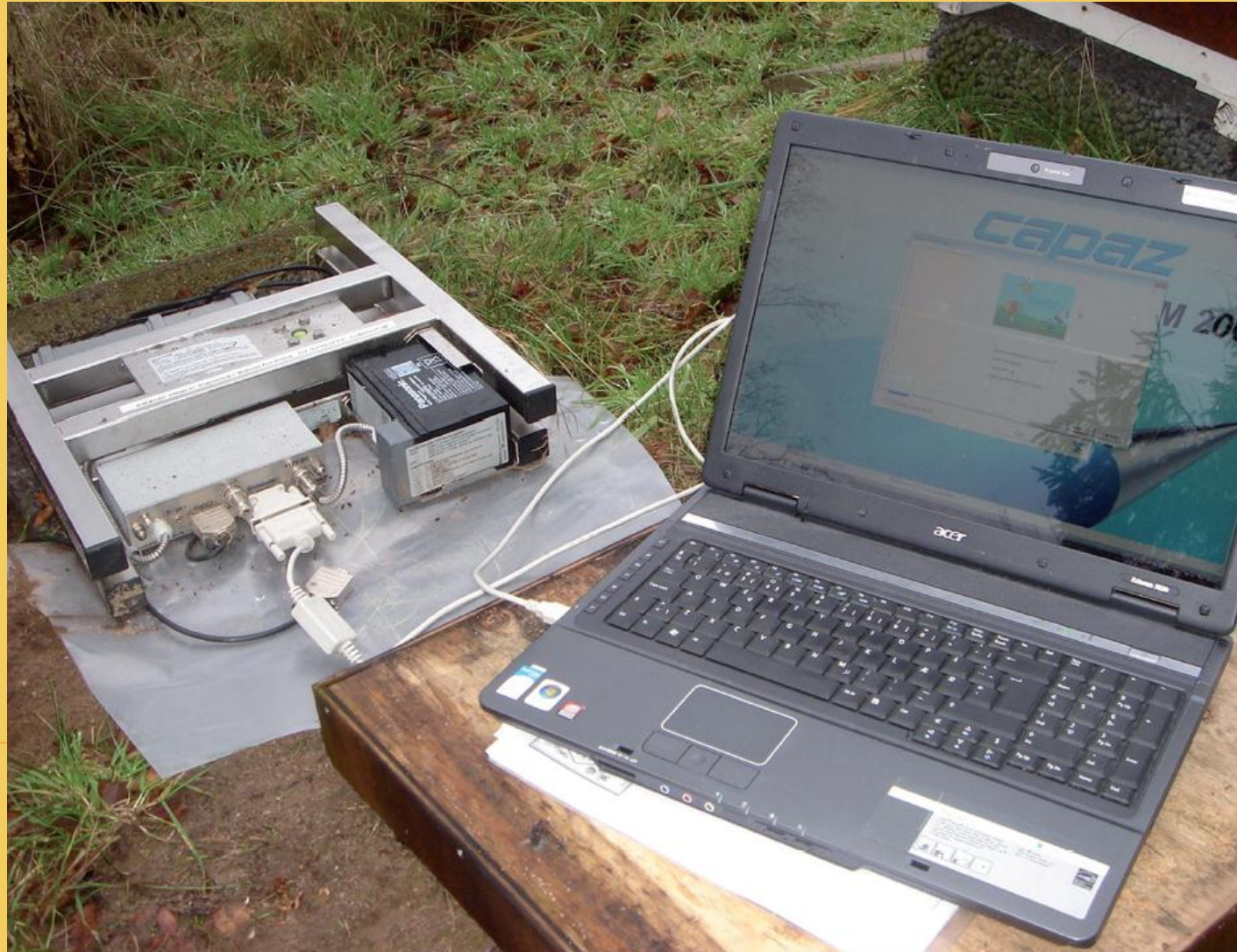
# IMPORTANCE OF LATE-SUMMER TREATMENT



# WE NEED A WARNINGESYSTEM

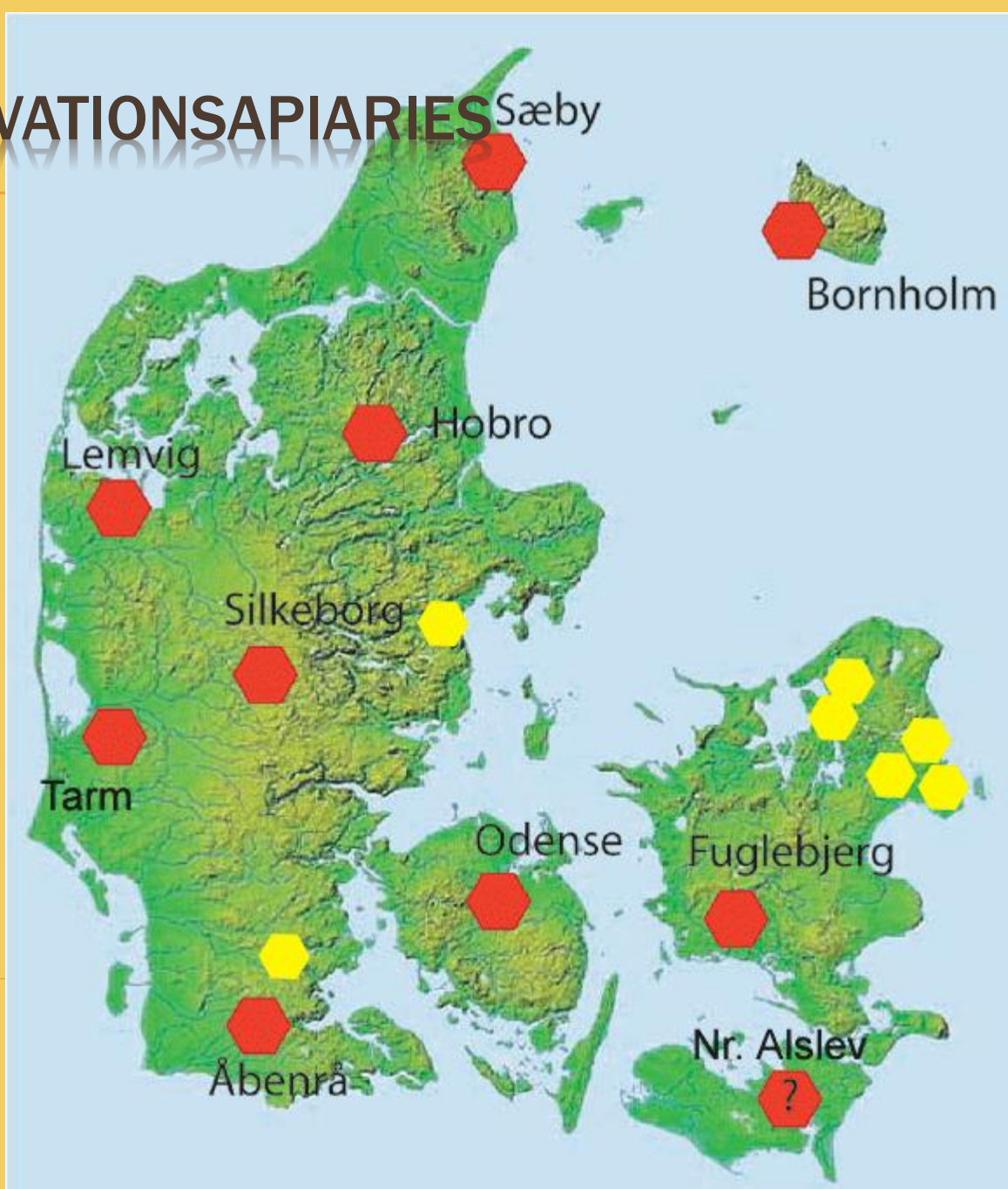


# [WWW.CAPAZ.DE](http://WWW.CAPAZ.DE) – ELECTRONIC HIVESCALE





# SCALES AND OBSERVATIONSAPIARIES IN DENMARK





# EXAMINE HEALTHY BEE'S



# HONEY-METRE

Honningmeteret



[Kort Danmark](#) [Kort Sverige](#) [Kort Norge](#) [Træk meldinger](#) [Login](#)

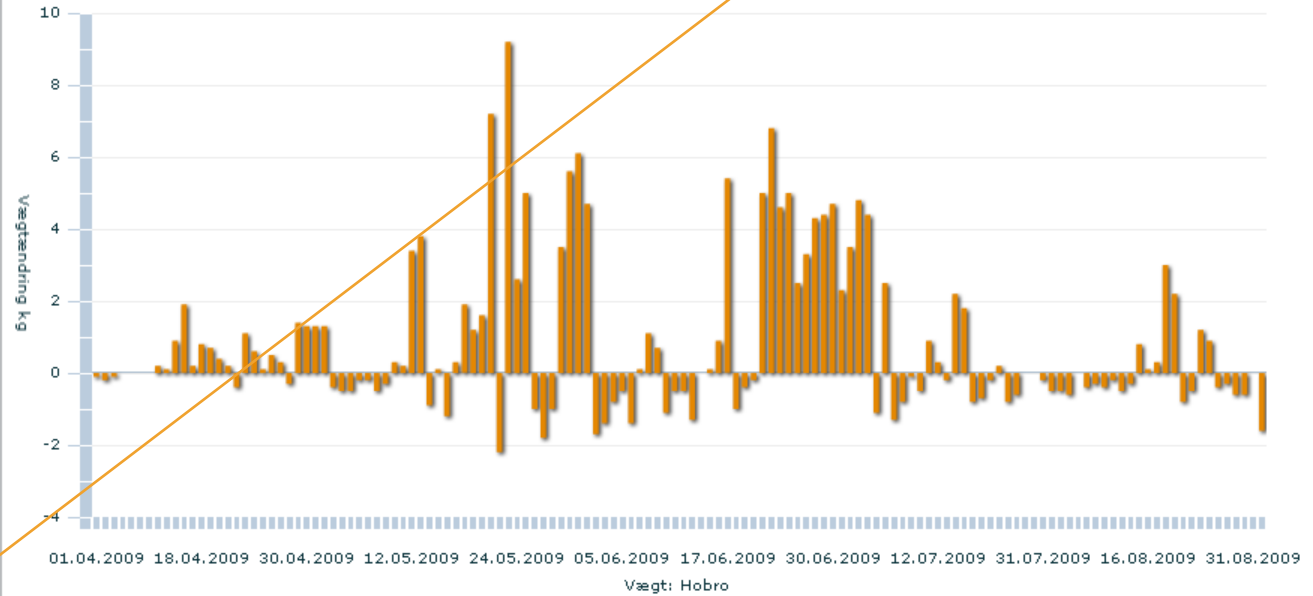
Danmarks Biavlerforening [www.biavl.dk](http://www.biavl.dk)



**Latvia**

Vægt: Hobro

Vægtændring



■ Vægtændring

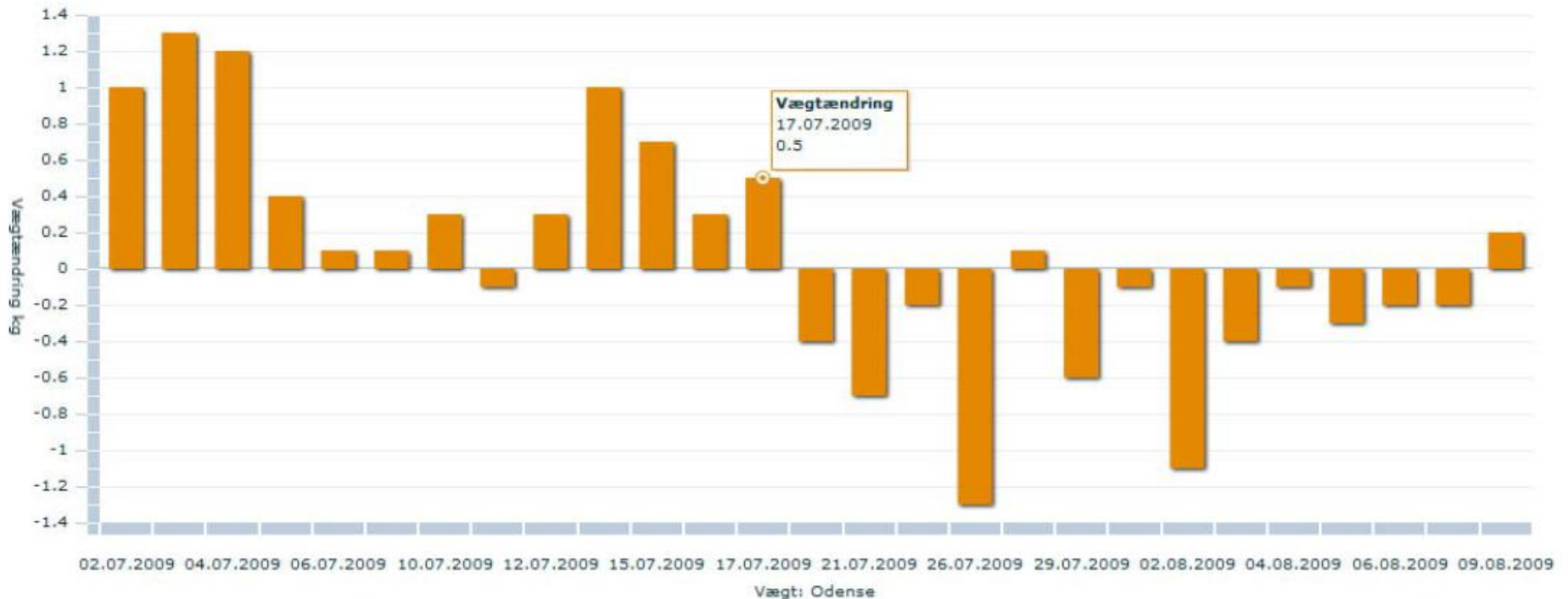
Udskriv

Temperatur og nedbør

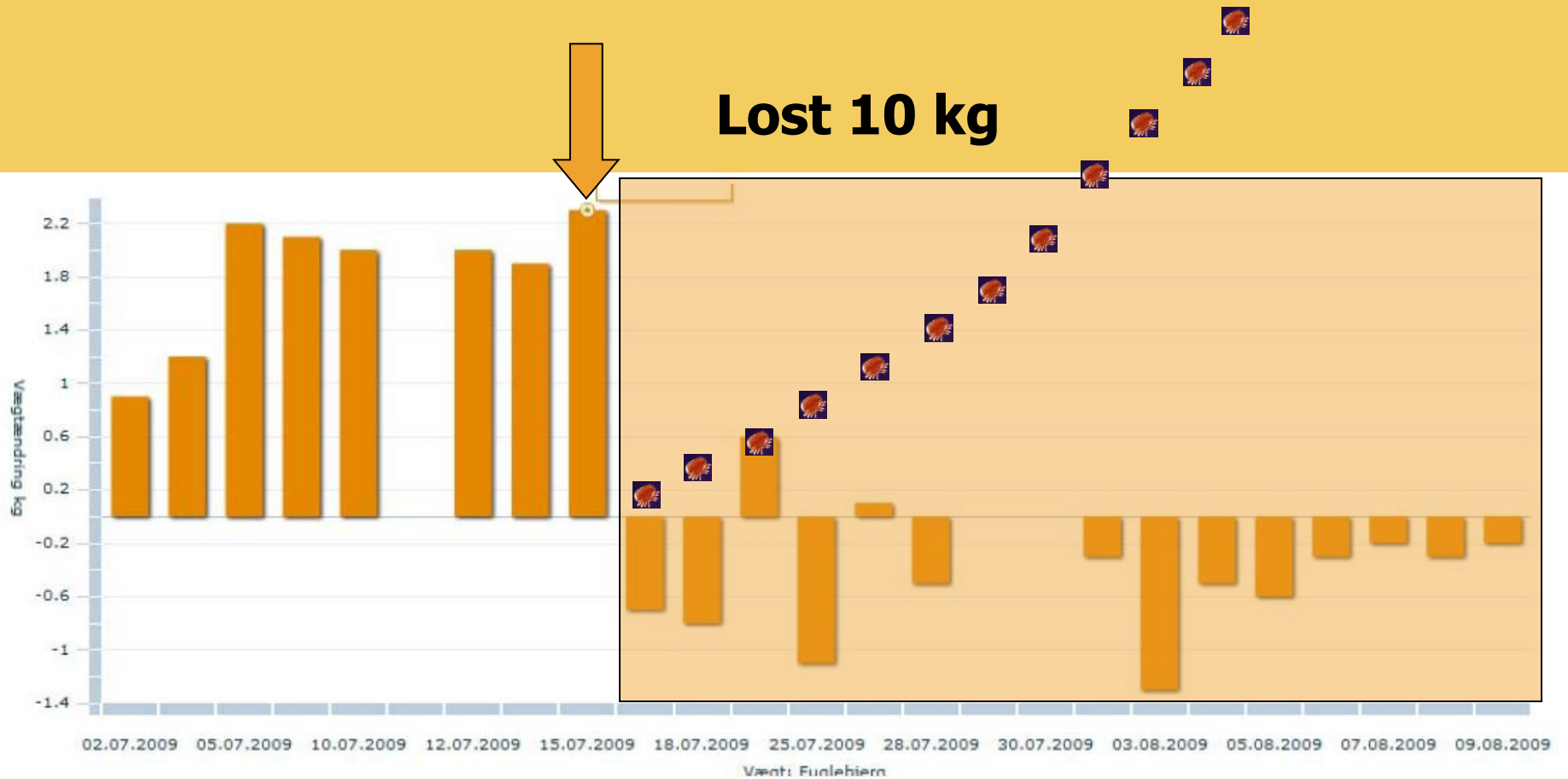
Stadtemp



# HONEY FLOW/FOOD CONSUMPTION

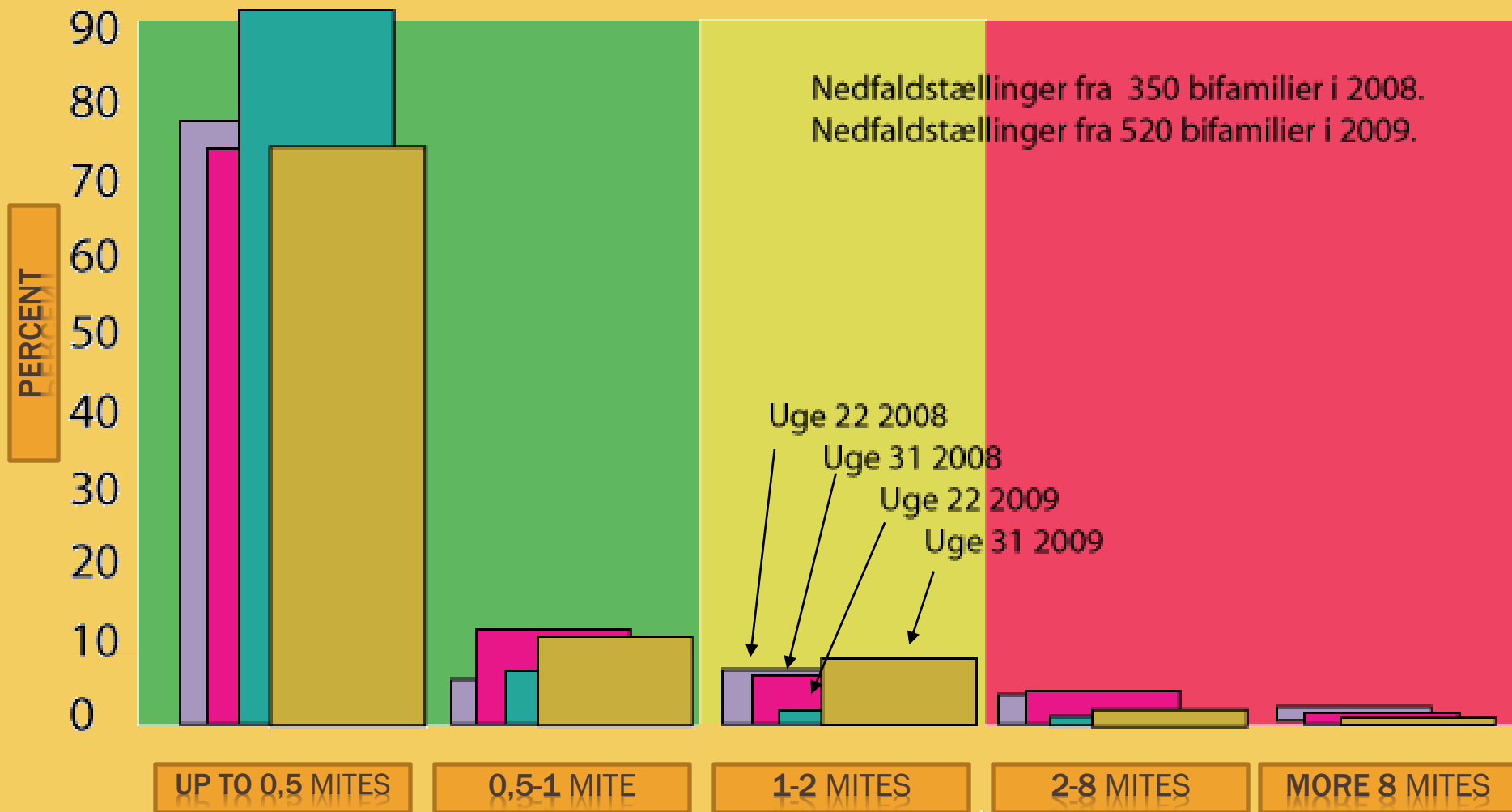


# FLOW STOP





# DAILY NATURAL MITE DOWNFALL WEEK 22 AND 31 IN 2008 AND 2009





# THANKYOU I WISH YOU A SUCCESSFUL BEEKEEPING SEASON 2010



Do you know why honey is yellow ?  
Bee happy - it is not brown !