

In this document you will find the full English-translated version of the questionnaire that we used to collect data from 1980 to 2018 from Polish beekeepers. We have divided the responses received from beekeepers into thematic sections in order to be able to analyse and discuss in detail their relevance to the existing literature on the subject. Further publications are in preparation. Please bear in mind that this questionnaire is adapted to the climate, conditions and beekeeping technology used in Poland over the years, and that we have currently developed a slightly updated and modified version of the questionnaire (in paper and on-line). If you have any questions, please contact the corresponding author.

### Beekeeping questionnaire in year .....

1. Name, address.....  
.....
2. Fixed location of the apiary.....
3. Date of last autumn flight (previous year).....
4. Date of first spring flight (this year).....
5. Number of bee colonies in May (after winter):

Wielkopolski type	Warszawski – normal type	Other (give the frame dimensions)
Dadant type	Warszawski – enlarged type	

6. Honey bees subspecies, type, line:.....  
.....  
.....
7. Date of plant blooming (if possible provide beginning and end of blooming date):

snowdrop	oilseed rape	red clover
filbert	raspberry	common heather
coltsfoot	black locust	
great willow	white clover	
gooseberry	small-leaved lime	
sour cherry	common buckwheat	

8. Main plants (in order of importance)

- a. foraged during colony development.....
- b. foraged and later collected as main honey yield.....

9. Was honeydew present (on which plants, dates, usage)? .....

10. Maintenance procedures - apiary technologies:

Was stimulant feeding used?		When?		With what results?	Choose: + , - , 0
Had queen egg-laying been reduced?		When?		With what results?	Choose: + , - , 0
Was apiary transported for foraging at different place(s)?		When?		With what results?	Choose: + , - , 0

11. How much honey was harvested on average from one colony?.....kg

Evaluate the honey harvest according to the scale: very good, good, average, less than average, disastrous

12. How many pieces of wax foundation was added on average per colony ..... pc.

How many kg of wax was produced from honey sealing and additional build-ups?..... pc

13. Other beekeeping production (queens, royal jelly, propolis, venom – and their quantities).....  
.....  
.....

14. When swarming began (date)? ..... How many colonies swarmed? .....

15. How many queens were replaced in the season? ..... , including purchased queens .....

Self-production of queens, queens from swarming, queens from self-reared, accidental queens – description and comments:.....  
.....  
.....  
.....  
.....

16. How many colonies were overwintered? ..... On how many frames? ..... How big was the average food storage per colony (honey + sugar)? .....

17. How many kg of sugar was used to support spring development..... and before winter.....

18. How many colonies there are in 1.5 km radius ..... and in 3 km radius..... from apiary (give approximate figures, do not include your own apiary)

19. Have plant standard/chemical plant protection treatment been applied within the flight range of the bees?.....

Have there been any bee poisonings?..... if yes please provide:

Date of poisoning ..... plant species..... name of pesticide /  
plant protection product..... Was the whole apiary poisoned?.....

Were only foraging bees poisoned? ..... What distinguished these poisoned colonies from the other colonies? (strength, subspecies).....

**Symptom of poisoning:** overall weakening of colony....., presence of dead bees in colonies and in outside the hive.....

**Estimate the size of poisoning** – foraging bees partially poisoned.....%, were all foraging bees poisoned?..... hive workers partially poisoned.....%, were all hive bees poisoned?.....

Comments regarding brood:.....  
.....

20. Is apiary adapted to closing bees inside hives during plant protection treatments? .....

Comments regarding this issue:.....  
.....

21. Did diseases occur in proximity of apiary?..... Which ones?.....

22. Is varroasis an important threat for the apiary? ..... Why?.....

How do you treat your bees against *Varroa* spp.?.....  
.....  
.....  
.....  
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23. Other comments of respondent.....  
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Date: .....

In case of doubt or lack of adequate data please respond only to these questions that you are able to respond. Please provide us with questionnaire within the end of current year. Second identical form is for personal usage as documentation of beekeeper.