





## Dear Beekeeper,

Your contribution to this annual survey on colony losses is much appreciated. At various points in the questionnaire below, there are points of Information marked in RED. Hopefully these will explain the logic of the questions that follow. Please try to complete <u>all</u> the questions as this will allow not only the number of winter colony losses to be calculated, but will also contribute to identifying the possible causes for these losses.

Please send completed questionnaires to:

## Dr Mary F Coffey, Teagasc, Oakpark Research Centre, Carlow

All completed surveys should be returned by 1 June 2017.

Please note that the questionnaire will also be available online from May  $\mathbf{1}^{\text{st}}$  on both the FIBKA and NIHBS webpages, however it is important that each beekeeper only completes the survey once.

## Thank you

Mary F

information: information about your name and address will be removed from the file used it	Jr
processing the data and kept confidential.	

First name Last name Address City Postal Code		
Email		
County	<del></del>	
Country	Ireland	
a) the name of	tion of your main apiary or operation, please state a city/town/village near to your apiary? tal code of the apiary (or a postal code nearby)	
Thow many apianes	ao you mave:	
• ,	an one apiary, are all your apiaries within a dist you have only one apiary, please answer yes. O Yes O No	O Don't know
Please consider winter a winter preparations for In this questionnaire we	of colonies, losses and status of the colony post is the period between the moment that you fir your colonies and the start of the new foraging try to gather information about production co nright and strong enough to provide a honey h	nished the pre- g season. blonies. Please consider

4 How many production colonies did you have before winter 2016-2017?







Information: In the next questions you are asked for numbers of colonies lost. Please consider a colony as lost if it is dead (or reduced to a few hundred bees) or alive but with queen problems, like drone laying queens or no queen at all, which you couldn't solve.

_	•	e (4) colonies did you een problems. If none,			<u>e alive</u>	
_	•	e (4) colonies did you ree, cattle/sheep, van			al disaster	
<b>7</b> How m	any of these	e (4) colonies did you	lose, bec	ause they <u>wer</u>	<u>re dead</u> ?	
8 How m	-	ead colonies ( <b>7</b> ) y dead bees in or in fro	ont of the	hive?		<b></b>
b)	had no o	r only a few dead bees	in or in f	ront of the em	pty hive?	←
c)	had <u>dead</u>	d workers in cells and r	no food pr	esent in the h	ive	<
	(signs of sta	arvation)?				
d)	had <u>dead</u>	d workers in cells while	food was	present in th	e hive?	<
e)	had none	e of the above or unkn	own sym	otoms?		<u> </u>
two questi	ons, conside	ring 2016 and remembering spring as the star	rt of the f	oraging seaso  a) spring 201	n: 6 (last yea	
				b) spring 201	7?	
Informatio	n: Condition	ns in the colonies, the	environm	ent around th	ne apiary, a	and management:
11 How m	any of the w	vintered colonies had a	new que	en in 2016?	Don't kno	w
2016 comp		you observe queen pr it you usually have? O Normal	oblems in		during the	e foraging season of
13 Compa winter?	red with you	ır colonies with old qu	eens, hav	e your colonie	s with you	ng queens survived
	Better	O No differently	O Wors	se O Do	n't know /	not applicable
		surviving colonies had lifter winter?	a large ar	nount of	Don't kno	w

15 Did you migrat	e any of your coloni	ies at l				hone Don'			ction	or p	ollina	ation	in 2	016?	•
16 Approximately colony in 2016?	what proportion of	brood 0 0%		nbs d 1-30		ou re		e wit 1-50			ound ) moi		•		
Did the majoring plants in 2016?	ty of your bee colon	ies hav	ve a s	signit	fican	t flov	w on	one	or m	ore	of th	e fol	lowii	ng	
a)	Orchards	O Ye	s O	No	0	Don'	t kno	w							
b)	Oil seed rape	O Ye	s O	Nο	O	Don'	t knc	w							
c)	Maize	O Ye													
d)	Heather	O Ye				Don'									
u,	ricatrici	0 10	<b>5</b>	110		0011	CKIIC	, , ,							
18 Have you mon	itored your colonies	for Va O Ye			_	-		-			April cable		7?		
19 Have you treat	<ul> <li>Have you treated your colonies against Varroa during the period April 2016 - April 2017?</li> <li>Yes</li> <li>No</li> <li>Don't know / not applicable</li> </ul>														
20 Could you plea	ise indicate the mon	iths				Mont		hich e	each r	neasu	ire sta	rted:	00	4-7	
when you monitor	ed your production						2016						20	17	
colonies for Varroa	a <b>AND</b> also indicate														
when you STARTE	Da <i>Varroa</i> treatmer	nt or						ē		_	Ŀ				
	during the period A						st	qui	er	mpe	mbe	ary	ıary	_	
2016 - April 2017?	0 1	•	April	Мау	June	July	August	September	October	November	December	January	February	March	April
	od / Product:		⋖	2	う	ぅ	⋖	S	0	Z	٥	ب	IL.	2	⋖
	infestation level (e.g. cou mite fall)	nting													
	brood removal														
	at treatment of brood/bees														
	ethod (as e.g. trapping co														
	moval, queen confinemer acid - short term	11)													
	long term (e.g. MAQS)														
	actic acid														
	acid - trickling														
	Iblimation (evaporation) Bienenwohl/Beevital														
	Apiguard, ApilifeVar)														
	nate (e.g. Apistan)														
	in (e.g. Bayvarol)														
	os, e.g. Apivar, Apitraz)														
	umigation/aerosol)														
	hos (e.g. Perizin) strips, e.g. Checkmite+)														
	chemical product														
Ano	ther method														
sugar) last year to	r colonies a supplem		_		-	_									
_	prepare for winter, oduction colony?  our bees in an area w		·		_					·	give	:			

O Yes O No O Don't know







	re you noticed bees with crippled/deformed wi i)? (These are signs of the presence of Deforme	•					
	O Not at all O to a limited extent O to a	_		•			
0 E 14 (I							
	at particular measures apply for the majority o	•	•	_			
a)	Screened (mesh) bottom board in Winter	O Yes	O No	O Don't know			
b)	Insulated hives in Winter	O Yes	O No	O Don't know			
c)	Plastic hives	Yes	O No	O Don't know			
d)	Certified organic beekeeping	O Yes	O No	O Don't know			
e)	Varroa tolerant stock	O Yes	O No	O Don't know			
f)	Small brood cell size (5.1 mm or less)	O Yes	O No	O Don't know			
g)	Natural comb (without foundation)	O Yes	O No	O Don't know			
h)	Purchase wax from outside own operation	O Yes	O No	O Don't know			
i)	Polystyrene hives	O Yes	O No	O Don't know			
	you observe <i>Vespa velutina</i> (Asian hornet) fora /apiaries?	aging for	honey b	ees in your			
~piai y	ap.a	O Yes	O No	O Don't know			

On behalf of the National Apiculture Programme sincere thanks for completing this annual survey. We appreciate the time you have put into completing the Survey.

Mary Frances Coffey

April 2017