

#### METHODOLOGY & INTERVIEW LENGTH

- N = 100 telephone interviews of up to 20 minutes duration
- Fieldwork timing: October 2015

#### SAMPLE STRUCTURE & CUT-OFF SIZES

	Sample	Cut-off size
<b>GER - WOSR; n=100</b>		
Mecklenburg- Vorpommern	15	150ha
Schleswig-Holstein	31	30ha
Niedersachsen	26	50ha
Bavaria	28	30ha
<b>TOTAL WOSR</b>	<b>n=100</b>	

#### SCREENING CRITERIA

- Growers of winter oil seed rape
- Above minimum cut-off size of cultivated area of WOSR with a range of farm sizes
- Contact: Key **decision maker** on pesticides (usually owner / business manager)
- Germany - WOSR:
  - o All users of NNIs on WOSR prior to the suspension

**SCREENING & INTRODUCTION (3 min.)**

→ Ask for owner/ manager or person responsible for decisions on use of pesticides on [CROP].

Hello, my name is [...] from MARKET PROBE. We are an independent market research agency, working on a survey focusing on WINTER OILSEED RAPE growers and agronomists and I would be very interested in your opinions and attitudes on a number of subjects. I can assure you that your individual responses will not be identifiable in the overall results.

**0. (do not ask) Define region.**

→ Single response

Mecklenburg- Vorpommern	1
Schleswig-Holstein	2
Niedersachsen	3
Bavaria	4

**1. Are you the person responsible for decisions regarding the use of pesticides on your WINTER OILSEED RAPE crop?**

→ SPONTANEOUS. Single response

Yes, farmer/grower	1
No	2

IF Q1=2 ⇒ ASK for the right person

**2. A. Thinking back two seasons, how many hectares of the following crops did you grow on your farm/ business (across all possible sites) FOR HARVEST IN 2014 (2013/2014 season)? And what other crops did you grow? How many hectares of [...]**

→ READ WINTER OILSEED RAPE ONLY. Probe for other crops they cultivate and ask for areas.

A) WINTER OILSEED RAPE	... ha	IF A > [Cut off PER REGION] ⇒ QUOTA 'WINTER OILSEED RAPE'
B) Other (Specify) 1.....	... ha	
C) Other (Specify) 2.....	... ha	
D) Other (Specify) 3.....	... ha	
E) Other (Specify) 4.....	... ha	
F) Other (Specify) 5.....	... ha	

**3. What is your total farm size (including all possible sites)?**

→ Numeric question. Use '-1' in case of 'don't know/no answer'

... hectares
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5. How many hectares of WOSR have you planted on your farm/ business (across all possible sites) this autumn (2015/2016 season)?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

	... hectares
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**ASK ALL**

6. A) Are you aware that the use of neonicotinoid seed treatments on WOSR has been suspended for two years?

Yes	1
No	2
Don't know/no answer	99

- B) Did the suspension of neonicotinoids have an impact on any aspect of management of your WOSR at any time during the 2014/2015 growing season i.e. when compared to the period before this when NNI seed treatments were available?

Yes	1
No - no impact	2

**IF YES AT Q6B, ASK**

7. What are all the ways in which the suspension of neonicotinoids has impacted on your management of WOSR during the 2014/2015 growing season?

→ Open ended. Probe.

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8. And which of the following changes did you implement on your farm during the 2014/2015 growing season due to the suspension of neonicotinoids for use on WOSR?

→ READ OUT. Multiple responses.

	Q8 (Multiple responses)
Reduced area of WOSR grown	1
Replaced part of WOSR with another crop	2
Switched to foliar pyrethroid insecticides	4
Increased the number of foliar insecticide applications in the autumn of 2014	5
Increased the number of foliar insecticide applications in the spring of 2015	6
Increased manual checking for presence of insect pests in spring of 2015	7
Switched from WOSR to WHEAT	8
Switched from WOSR to CORN	9
Higher seed rate	10
Checking of yellow water traps intensified (Gelbschalen)	11
Replanting of oilseed rape or another crop in the spring	12
Reduce or switch use of pre-emergent herbicides in favor of post emergent herbicides	13
Other (Specify) .....	96
Other (Specify) .....	97
Other (Specify) .....	98
Don't know / no answer	99

**IF AREA OF WOSR GROWN WAS REDUCED (CODE 1 OR 2 AT Q8), ASK**

9. You said earlier that you had reduced the area of WOSR grown in 2014/2015 or replaced part of your WOSR area with another crop due to the suspension of neonicotinoids, what impact, if any, has this change had on your farming business?

→ Open ended. Probe.

**INSECT PESTS**

10. A) What are all the insect pests you face on your WOSR crop?

→ SPONTANEOUS. Multiple response.

B) And which ONE of these insect pests do you consider to be the most difficult to control?

→ SPONTANEOUS. Single response.

	Q10A Spontaneous (Multiple response)	Q10B Spontaneous (Single code only)
Flea beetle	1	1
Wessex flea beetle	2	2
Cabbage stem flea beetle ( <i>pysylliodes chrysocephala</i> )	3	3
Large striped flea beetle	4	4
Autumn aphids - Peach-potato aphid	5	5
Pollen beetle ( <i>Meligethes aeneus</i> )	6	6
Cabbage seed weevil ( <i>Ceutorhynchus assimillis</i> )	7	7
Rape stem weevil ( <i>Ceutorhynchus napi</i> )	8	8
Cabbage stem weevil ( <i>Ceutorhynchus pallidactyllus</i> )	9	9
Winter stem weevil	10	10
Brassica pod midge ( <i>Dasyneura brassicae</i> )	11	11
Cabbage root fly ( <i>Delia radicum</i> )	12	12
Mealy cabbage aphid	13	13
Turnip sawfly ( <i>Athalia rosae</i> )	14	14
Other (Specify) .....	96	96
Other (Specify) .....	97	97
Other (Specify) .....	98	98
Don't know / no answer	99	99

**IF POLLEN BEETLE (RAPSERDFLOH), CABBAGE STEM FLEA BEETLE (RAPSGLANZKAFER) OR RAPE STEM WEEVIL (RAPSSTANGELRUSSLER, GROSSER) MENTIONED AT Q10 (CODES 3, 6 OR 8), ASK FOR EACH INSECT PEST...**

11. In your opinion, what proportion of your WOSR was affected by [INSECT PEST] during the 2014/2015 season on your farm/ business (across all possible sites)?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

Pollen beetle	... %
Cabbage stem flea beetle	... %
Rape stem weevil	... %

**ASK FOR EACH INSECT PESTMENTIONED AT Q11**

12. At which, if any, of the following growth stages did [INSECT PEST] cause damage to your WOSR during the 2014/2015 season on your farm/business (across all possible sites)?

→ Read. Multiple responses

**ASK FOR EACH INSECT PESTMENTIONED AT Q11**

13. Which of the following statements best describes the impact on your WOSR crop of damage incurred by [INSECT PEST] at [GROWTH STAGE] during the 2014/2015 season? Please use the following scale...

1 = Severe potential damage (loss of > 20% of the crop due to damage or disease)

2 = Moderate potential damage (loss of 10 - 20% of the crop due to damage or disease)

3 = Modest potential damage (loss of < 10% of the crop due to damage or disease)

99 = Don't know/No answer

→ PROMPTED. Put code in table for each growth stage

	Pollen beetle		Cabbage stem flea beetle		Rape stem weevil	
	Q12a Growth stage	Q13a Actual damage caused	Q12b Growth stage	Q13b Actual damage caused	Q12c Growth stage	Q13c Actual damage caused
Germination & emergence	1	...	1	...	1	...
Both cotyledons unfolded and green	2	...	2	...	2	...
First true leaf	3	...	3	...	3	...
Second true leaf	4	...	4	...	4	...
Third true leaf	5	...	5	...	5	...
Fourth true leaf	6	...	6	...	6	...
Fifth true leaf	7	...	7	...	7	...
Later than fifth true leaf	8	...	8	...	8	...
Formation of side shoots	9	...	9	...	9	...
Stem elongation	10	...	10	...	10	...
Inflorescence emergence	11	...	11	...	11	...
Flowering	12	...	12	...	12	...
Development of fruit	13	...	13	...	13	...
Other. Specify...	98					
Don't know/No answer	99					

**IMPACT ON YIELD & QUALITY**

**ASK ALL**

14. A) Would you say that the climatic conditions experienced in your area in the Spring/Summer of this year (2015) were...

→Single response.

	Q14 (Single response)
A lot better than average	1
Better than average	2
About average	3
Worse than average	4
A lot worse than average	5
Don't know / no answer	99

**IF WORSE OR A LOT WORSE THAN AVERAGE (Q14 CODES 4 OR 5) ASK**

B) In what way were the weather conditions worse than average in the spring/summer of 2015?

→ Open ended. Probe.

**IF WORSE OR A LOT WORSE THAN AVERAGE (Q14 CODES 4 OR 5) ASK**

C) And how well would you say your WOSR crop coped with the weather conditions experienced in your area in the Spring/Summer of this year (2015)? Did your crop...

→READ OUT - Single response.

	Q14C (Single response)
Cope well with the weather conditions	1
Cope rather badly with the weather conditions	2
Don't know / no answer	99

**IFCROP PERFORMED RATHER WELL (Q14C CODE 1) ASK...**

D) Why do you think your WOSR crop coped well with the adverse weather conditions in spring/summer 2015?

→ Open ended. Probe.

**IFCROP PERFORMED RATHER BADLY (Q14C CODE 2) ASK...**

E) Why do you think your WOSR crop coped badly with the adverse weather conditions in spring/summer 2015?

→ Open ended. Probe.

15. Would you say that during the 2014/2015 growing season, the tap root development of your WOSR crop was...

→ READ OUT - Single response.

	Q15 (Single response)
Good/as normal	1
Less well developed than normal	2
Don't know / no answer	99

16. A) Did your WOSR YIELD in 2015 decrease, stay about the same or increase when compared to the previous season (2013/2014)?

→ Single response.

	Q16 (Single response)
Decrease	1
Stay about the same	2
Increase	3
Don't know / no answer	99

**IF WOSR YIELD DECREASED IN 2015 (Q16A CODE1), ASK**

B) What are all the reasons why your WOSR YIELD decreased in 2015?

→ Open ended. Probe.

**IF WOSR YIELD DECREASED IN 2015 (Q16A CODE1), ASK**

C) And what proportion, if any, of this decrease in yield would you say was as a direct result of the neonicotinoid suspension?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

... %



**IF 1% OR MORE AT Q16C, ASK**

D) And how much is this reduction in yield likely to cost you in terms of dt/ha?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

17. A) And did the QUALITY of your WOSR CROP decline, stay about the same or improve in 2015 when compared to the previous season (2013/2014)?

→ Single response.

	Q17 (Single response)
Decline	1
Stay about the same	2
Improve	3
Don't know / no answer	99

**IF WOSR QUALITY DECLINED IN 2015 (Q17A CODE1), ASK**

B) What are all the reasons why your WOSR QUALITY declined in 2015?

→ Open ended. Probe.

**IF WOSR QUALITY DECLINED IN 2015 (Q17A CODE1), ASK**

C) And what proportion, if any, of this decline in QUALITY would you say was as a direct result of the neonicotinoid suspension?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

**IF 1% OR MORE AT Q17C, ASK**

D) And how much is this reduction in quality likely to cost you in terms of €/dt?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

18. What are all the ways in which the QUALITY of your WOSR CROP declined in 2015 when compared to the previous season (2013/2014)?

→ SPONTANEOUS. Multiple responses.

	Q18 (Multiple responses)
Reduced oil content	1
Higher glucosinolate levels	2
Lower price per ton received for crop	3
Other (SPECIFY).....	98
Don't know / no answer	99

19. Taking into account the recent suspension of neonicotinoids, what proportion of your WOSR CROP do you estimate you can successfully grow without any negative impact on quality or yield?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

	... %
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**ASK ALL**

20. Has your production of WOSR in 2014/2015 in any way impacted on the drilling of your crops this autumn (2015/2016 season)?

	Yes	1
	No	2

**IF YES AT Q20, ASK**

21. What are all the ways in which this autumn's drilling (2015/2016 season) has been affected by last year's WOSR crop (2015 harvest)?

→ Open ended. Probe.

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**FOLIAR INSECTICIDE TREATMENTS**

22. How do you monitor pest levels on your WOSR crop? What other methods do you use to monitor pest levels on your WOSR crop?  
→ READ OUT. Multiple responses.

	Q22 (Multiple responses)
Visual inspection/field walking	1
Yellow water trays	2
SMS alert service	3
Other (Specify) .....	98
Don't know / no answer	99

23. How was the insect pest pressure on your WOSR crop during:  
A) the autumn of 2014? Was it...?  
B) the spring of 2015? Was it...?  
→ READ OUT. Multiple responses.

	Q23A Autumn 2014 (Single response)	Q23B Spring 2015 (Single response)
A lot worse than average	1	1
A little worse than average	2	2
About average	3	3
A little better than average	4	4
A lot better than average	5	5
Other (Specify) .....	98	98
Don't know / no answer	99	99

24. How many times did you treat your WOSR crop with FOLIAR insecticides...  
A) during the whole of the 2013/2014 season and  
B) during the whole of the 2014/2015 season?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

A. During the 2013/2014 season	... applications
B. During the 2014/2015 season	... applications

**ASK FOR EACH YEAR/SEASON MENTIONED AT Q24**

25. Thinking now about your foliar insecticide program for WOSR during [YEAR/SEASON], at which of the following growth stages did you apply a foliar insecticide on your WOSR crop?  
a. Applied during 2013/2014 season  
b. Applied during 2014/2015 season  
→ READ OUT. Multiple response(s)

**Pan EU Study on Impact of Neonicotinoid Suspension - Wave 2**  
 Questionnaire - GER - GROWERS/WOSR - FINAL

	<b>A. APPLIED DURING 2013/2014</b>	<b>B. APPLIED DURING 2014/15</b>
	<b>A.GROWTH STAGE (Q25)</b>	<b>B.GROWTH STAGE (Q25)</b>
Germination & emergence	1	1
Both cotyledons unfolded and green	2	2
First true leaf	3	3
Second true leaf	4	4
Third true leaf		5
Fourth true leaf	6	6
Fifth true leaf	7	7
Flower bud visible (green bud)	8	8
Flower buds yellow	9	9
First flowers open	10	10
Don't know / no answer	<b>99</b>	<b>99</b>

**IMPACT OF BAN ON YIELDS AND COSTS**

27. A) What was your WOSR YIELD in dt/ha at harvest in 2014 (2013/2014 season)?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

B) What was your WOSR YIELD in dt/ha at harvest in 2015 (2014/2015 season)?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

A) Yield in 2014 (2013/2014 season)	...dt/ha
B) Yield in 2015 (2013/2014 season)	...dt/ha

28. A. Prior to the neonicotinoid suspension (2013/2014 season), how much did you spend (in €/hectare on insect control on WOSR over one complete season?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

B. And how much did you spend (in €/hectare) on insect control on WOSR since the neonicotinoid suspension came in, again over one complete season (2014/2015 season)?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

A) Insecticide spend prior to suspension (2013/2014 season):	... €/ha
B) Insecticide spend post suspension (2014/2015 season):	...€/ha

29. Still thinking about your final production costs for WOSR during the 2014/2015 season, for each of the following aspects would you say your costs increased, stayed about the same or decreased as a direct result of the suspension of neonicotinoids?

→ READ. Single response for each aspect.

	(Costs have) ...increased	(Costs have) ...stayed about the same	(Costs have) decreased	DK/No answer
A) WOSR seed costs due to change in seed rate	1	2	3	99
B) WOSR seeds due to a change in unit cost of seed	1	2	3	99
C) Foliar insecticides (product only i.e. excluding labour costs and/ or contractors fees)	1	2	3	99
D) Contractors fees for spraying	1	2	3	99
E) Machinery & fuel	1	2	3	99
F) Labour	1	2	3	99
G) Fungicides	1	2	3	99
I) Costs for checking of yellow water traps/pest monitoring	1	2	3	99
J) And overall would you say your production costs have...	1	2	3	99

**FUTURE CHANGES**

30. How confident are you that you will be able to grow WOSR successfully this season (2015/2016)? Are you...

→ READ OUT. SINGLE RESPONSE

Very confident	4
Quite confident	3
Not very confident	2
Not at all confident	1
[DO NOT READ] Don't know, no answer	99

31. In the future do you anticipate making any further changes to your CROP ROTATION OR TO THE AREA OF WOSR grown as a direct result of the suspension of use of Neonicotinoids?

Yes	1
No	2

**IF YES AT Q31, ASK**

32. A) What changes are you likely to make? Which crops are you likely to grow instead of WOSR?

→ Open ended. Probe.

B) Why will you replace your WOSR with this/these crops?

→ Open ended. Probe.

33. And in the future do you anticipate making any further changes to your PESTICIDE REGIME on WOSR as a direct result of the suspension of use of Neonicotinoids?

Yes	1
No	2

**IF YES AT Q33, ASK**

34. **What changes are you likely to make?**

→ *Open ended. Probe.*

35. **A. Which ONE of the following statements would most closely applies to you if the suspension of neonicotinoid seed treatments for use on WOSR were to be lifted?**

→ *READ OUT. Single response*

I would DEFINITELY go back to using a neonicotinoid seed treatment on my WOSR crop	4
I would PROBABLY go back to using a neonicotinoid seed treatment on my WOSR crop	3
I would PROBABLY NOT go back to using a neonicotinoid seed treatment on my WOSR crop	2
I would DEFINITELY NOT go back to using a neonicotinoid seed treatment on my WOSR crop	1
Don't know/No answer	99

**IF PROBABLY OR DEFINITELY NOT (Q35 CODES 1 OR 2), ASK**

**B. Why do you say that?**

→ *Open ended. Probe.*

Finally, some classification questions.

**36. What is your age?**

→ READ OUT. SINGLE RESPONSE

< 35 years old	1
35 - 44 years old	2
45 - 54 years old	3
55 - 64 years old	4
65 and older	5
[DO NOT READ] Don't know, no answer	99

**37. What is your highest level of education?**

→ READ OUT. SINGLE RESPONSE

None - on farm training	1
Primary education	2
Secondary education - non agricultural orientation	3
Secondary education - agricultural orientation	4
Higher education but not University - non agricultural	5
Higher education but not University - agricultural	6
University or similar - non agricultural	7
University or similar - agricultural	8
Other. Specify...	98
[DO NOT READ] Don't know, no answer	99

**THANK YOU**



**METHODOLOGY & INTERVIEW LENGTH**

- N = 10 telephone interviews per crop of up to **15 minutes duration**
- Fieldwork timing: October 2015

**SCREENING CRITERIA**

- Respondents must be in a position to influence the choice of insecticides for use on oilseed rape crops. (E.g. Agronomist, adviser, researcher, officials, large distributor...)
- Landwirt - No bee-keeper associations

**SCREENING & INTRODUCTION (3 min.)**

→ Ask for person responsible for advising growers on use of pesticides on [CROP] or person responsible for defining or influencing policies or strategies for insect control on [CROP].

Hello, my name is [...] from MARKET PROBE. We are an independent market research agency, working on a survey focusing on WINTER OILSEED RAPE and I would be very interested in your opinions and attitudes on a number of subjects. I can assure you that your individual responses will not be identifiable in the overall results.

**Name of company / organization**

**Job title / role**

**4. (do not ask) Define region.**

→ Single response

	1
	2
	3
	4

**5. Do you personally advise or have an influence on decisions regarding the use of pesticides on WINTER OILSEED RAPE crops?**

→ SPONTANEOUS. Single response

	WOSR
Yes	1
No	2

*IF Q1=2 ⇒ ASK for the right person*

**PEST PRESSURE SPRING 2015**

6. **A) Thinking back to the spring of 2015, how would you describe the pest pressure on WOSR crops in your region in comparison with previous years?**

→ *Open ended. Probe.*

- B) What were the main insect pests present during the spring of 2015?**

→ *Open ended. Probe.*

- C) How much damage did they cause? (Probe for economic impact/cost of damage)...**

→ *Open ended. Probe.*

- D) And how difficult were they to control?**

→ *Open ended. Probe.*

**YIELDS AND QUALITY**

7. A) In your opinion, did WOSR YIELDS decline, stay about the same or improve in 2015 when compared to the previous season (2013/2014)?

→Single response.

	Q3 (Single response)
WOSR yields declined in 2015	1
WOSR yields stayed about the same in 2015	2
WOSR yields improved in 2015	3
Don't know / no answer	99

**IF WOSR YIELDS DECLINED OR IMPROVED IN 2015, ASK**

- B) What are all the reasons why WOSR YIELDS [Declined/ Improved] in 2015 compared to the previous season?

→ Open ended. Probe.

8. A) Would you say that in general the QUALITY of WOSR CROPS in your region declined, stayed about the same or improved in 2015 when compared to the previous season (2013/2014)?

→Single response.

	Q3 (Single response)
Quality of WOSR declined in 2015	1
Quality of WOSR stayed about the same in 2015	2
Quality of WOSR improved in 2015	3
Don't know / no answer	99

**IF WOSR QUALITY DECLINED OR IMPROVED, ASK**

- B) What are all the ways in which the quality of the WOSR crop [declined / improved] in 2015 when compared to the WOSR crop from the previous season (2013/2014)?

→ Open ended. Probe.

C) How do you explain this change in quality when compared to the previous season (2013/2014)?

→ Open ended. Probe.

**PRODUCTION COSTS**

9. A) As you know, the use of neonicotinoid seed treatments on WOSR has been suspended for two years. In your opinion did WOSR production costs during the complete 2014/2015 season increase, stay about the same or decrease as a direct result of the suspension of neonicotinoids?

→ Single response.

	Q5 (Single response)
Production costs have increased	1
Production costs have stayed about the same	2
Production costs have decreased	3
Don't know / no answer	99

B) What are all the ways in which WOSR production costs have [increased/decreased] as a direct result of the suspension of neonicotinoids? Why do you say that?

→ Open ended. Probe.

C) And overall, by how much (%) do you think production costs have [increased/decreased] as a direct result of the suspension of neonicotinoids?

→ Open ended. Probe.

**IMPACT ON FUTURE PRODUCTION**

10. Did the production and harvest of WOSR in 2014/2015 in your region in any way impact on the drilling of crops this autumn (2015/2016 season)?

	Yes	1
	No	2

8. A) In your opinion, is WOSR still a viable/ profitable crop to grow in your region?

→ SPONTANEOUS. Single response

	WOSR
	Yes 1
	No 2

- B) Why do you say that?

→ Open ended. Probe.

- C) If there were to be a decline in the total area of WOSR grown in Germany, what would be all the possible consequences? FOR EACH ANSWER, PROBE: Why do you say that?

→ Open ended. Probe.

1<sup>st</sup> consequence:

2<sup>nd</sup> consequence:

3rd consequence:

9. If there were to be a decline in the total area of WOSR grown in Germany, which crop(s) would farmers grow instead of WOSR? And why?

→ *Open ended. Probe.*

10. What impact would a reduction in the area of WOSR grown have on...  
A) Farm incomes? Why do you say that?

→ *Open ended. Probe.*

Impact on farm incomes and reasons why:

B) ...the bee population? Why do you say that?

→ *Open ended. Probe.*

Impact on bee population and reasons why:

**ADVANTAGES AND DISADVANTAGES OF SEED TREATMENTS**

11. A) What are all the advantages of seed treatments when compared to other forms of insect control? PROBE: And what else?

→ *Open ended. Probe.*

Advantages of seed treatments:

b) And what are all the disadvantages of seed treatments? PROBE: And what else?

→ *Open ended. Probe.*

Disadvantages of seed treatments:



Finally, some classification questions.

12. What is your age?

→ READ OUT. SINGLE RESPONSE

< 35 years old	1
35 - 44 years old	2
45 - 54 years old	3
55 - 64 years old	4
65 and older	5
[DO NOT READ] Don't know, no answer	99

13. For how many years have you been working in a farm advisory/consultancy/research capacity?

→ Numeric question. Use '-1' in case of 'don't know/no answer'

... years
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14. Any final comments?

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THANK YOU