

### Supplemental material A

Questions (Q) and responses used in the survey of conservation tillage practices in Scania (translated from Swedish)

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Q1. Do you use any type of tillage at your farm?

Yes (continue to Q2),  No (ending your participation)

Q2. Are you working at a farm in Scania?

Yes  No

Q3. Select the alternative that corresponds to your age.

15-20 years    21-30 years    31-40 years    41-50 years  
 51-60 years    61-70 years    > 70 years

Q4. Select the alternative that best corresponds to your highest completed education.

Basic education (grade 1-9)    Secondary education  
 Tertiary education

Q5. Do you have any off-farm work experience?

Yes  No

If Yes, what type of work? (Optional)

Q6. Select the alternative that best corresponds to the total area of cultivated land at your farm.

1-30 ha    31-50 ha    51-100 ha  
 101-200 ha    201-300 ha    > 300 ha

Q7. Approximately how much of your crop production area do you own, expressed as a percentage?

Q8. In the area used for crop production at your farm, which soil type/grain size fraction is the most common and second most common?

Soil type/dominating grain size fraction	Most common	Second most common
Sand	<input type="checkbox"/>	<input type="checkbox"/>
Sandy moraine	<input type="checkbox"/>	<input type="checkbox"/>
Coarse silt	<input type="checkbox"/>	<input type="checkbox"/>
Fine sand	<input type="checkbox"/>	<input type="checkbox"/>
Silt	<input type="checkbox"/>	<input type="checkbox"/>
Fine sandy clay	<input type="checkbox"/>	<input type="checkbox"/>
Silty clay	<input type="checkbox"/>	<input type="checkbox"/>
Clay till	<input type="checkbox"/>	<input type="checkbox"/>
Light clay	<input type="checkbox"/>	<input type="checkbox"/>
Medium clay	<input type="checkbox"/>	<input type="checkbox"/>
Heavy clay	<input type="checkbox"/>	<input type="checkbox"/>
Organic soil	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

Write here if you wish to comment on your reply.

Q9. How much of your annual working time do you allocate to crop production, in percentage?

Q10. Do you intend to continue to work in agriculture the coming 10 years?

Yes  No

Q11. Are you involved in decision making at the farm where you work?

Yes  No

Q12. Do you apply any type of reduced till or direct seeding in your crop production?

Yes  No

Practices included in the definition of reduced tillage are:

- Shallow (5-7 cm) and deep (20-25 cm) plowless tillage
- Shallow plowing (10-15 cm)
- Plowing with additional equipment such as furrow presses
- Plowing and seeding in one operation

Definition of direct seeding:

- No preplanting tillage.

Write here if you wish to comment on your reply.

Q13. During the first half of the year (January-June) which types of tillage do you apply and in what proportions (as % of the total area used for crop production)?

Example:

If you use shallow plowing on all fields, select “Used” for shallow plowing, and write 100% in the “proportion of total cultivated land” row. Because more than one practice may be used in the same field the total may exceed 100%. If you use any practice more than once, please state that in the comment text box below.

Tillage practice	Not used	Used	Proportion of the total area used crop production (%)
Shallow plowless tillage	<input type="checkbox"/>	<input type="checkbox"/>	_____
Deep plowless tillage	<input type="checkbox"/>	<input type="checkbox"/>	_____
Shallow plowing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Plowing and seeding in one operation	<input type="checkbox"/>	<input type="checkbox"/>	_____
Plowing with additional equipment	<input type="checkbox"/>	<input type="checkbox"/>	_____
Direct seeding	<input type="checkbox"/>	<input type="checkbox"/>	_____
Deep plowing	<input type="checkbox"/>	<input type="checkbox"/>	_____

Write here if you wish to comment on your reply.

Q14. During the second half of the year (July-December) which types of tillage do you apply and in what proportions (% of total area used for crop production) do you use each tillage type?

Example:

If you use shallow plowing on all fields, select “Used” for shallow plowing, and write 100% in the “proportion of total cultivated land” row. Because more than one practice may be used in the same field the total may exceed 100%. If you use any practice more than once, please state that in the comment text box below.

Tillage practice	Not used	Used	Proportion of the total area used crop production (%)
Shallow plowless tillage	<input type="checkbox"/>	<input type="checkbox"/>	_____
Deep plowless tillage	<input type="checkbox"/>	<input type="checkbox"/>	_____
Shallow plowing	<input type="checkbox"/>	<input type="checkbox"/>	_____
Plowing and seeding in one operation	<input type="checkbox"/>	<input type="checkbox"/>	_____
Plowing with additional equipment	<input type="checkbox"/>	<input type="checkbox"/>	_____
Direct seeding	<input type="checkbox"/>	<input type="checkbox"/>	_____
Deep plowing	<input type="checkbox"/>	<input type="checkbox"/>	_____

Write here if you wish to comment on your reply.

Q15. For approximately how long have you been practicing reduced tillage or direct seeding?

Write here if you wish to comment on your reply



Q18. Compared with your current use of tillage practices, to what extent do you plan to change tillage practices in the future?

Tillage practice	Increased use	Unchanged use	Reduced use
Deep plowing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reduced tillage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Direct seeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q19. From which sources do you gather information on tillage practices? Select all relevant alternatives.

- |                                     |  |   |   |
|-------------------------------------|--|---|---|
| <input type="checkbox"/> Colleagues | <input type="checkbox"/> Specialized journals and mail   | <input type="checkbox"/> Consultants and advisors | <input type="checkbox"/> Field trips and agricultural fairs |
| <input type="checkbox"/> Internet   | <input type="checkbox"/> Direct contact with researchers | <input type="checkbox"/> Books and reports        | <input type="checkbox"/> Other                              |

Write here if you wish to comment on your reply.

Q20. Write here if you would like to add any further comments (optional).