## **Supplementary Information (SI.)**

1. What is your occupation?

## (SI.1) The Use and Perception of Cover Crops Survey

Please tick the most, or as many relevant options and feel free to add comments on the dotted lines.

0	Grower	0	Agronomist
0	Advisor	0	Other
0	Student		
(R	OI Q1.1) What County are you from?	?	
	What do you understand the function	on/ benefits	of cover crops (catch crop, green
0	Grown to improve soil fertility	0	
0	Manage weeds, pests & diseases	0	Provide winter grazing in arable rotations
0	Captures residual nutrients that are leachable	0	No benefit
3.	Have you considered growing a cov	er crop?	
0	Yes	0	No
4.	Have you ever grown a cover crop?		
0	Yes	0	No
<u>If</u>	you haven't planted a cover crop pl	ease skip t	o question 10.
5.	If you have, what species have you	planted?	
0	Fodder radish	0	Buckwheat
0	Crimson clover	0	Berseem clover
0	Stubble turnips	0	Vetch
0	Tillage radish	0	Phacelia
0	Mustard	0	Black oats
0	Lucerne	0	Forage rye
0	Beans		Fodder rape
0	Grass (any type)		Red clover
0	Peas	0	White clover
0	Other - please specify		

0	Mixture	0	Monoculture	
8. Why do you (did you) grow cover crops?				
0 0 0	Manage weeds, pests & diseases Improve soil health and structure Capture residual nutrients to reduce leaching Other specify	0 0	Provide nutrients through biological fixation Provide forage for livestock Increase soil organic matter Integrated crop management please	
9.	How did you establish it?			
0 0 0	Plough and sow Scratch and drill Scratch and broadcast Other specify	o _	Direct drill Broadcast please	
10. If you have grown a cover crop, what benefits (if any) did you see in the subsequent crop?				
0 0 0	Increased yield Reduction in fertiliser input Healthier crop Other – please specify	0	No difference but an investment in soil health and sustainability No difference and not worth it	
11. Cover crops are grown as part of integrated crop management. What problems in particular do you have on your arable land that cover crops could contribute to resolving, improving/mitigating?				
0 0 0 0 0	Low/ no organic matter return Decline in yield Weeds, pests & diseases Soil structure concerns Soil health concerns Compaction Other	0 0 0	Poor/ highly restricted rotation requiring diversity Nitrogen and phosphorous leaching overwinter (loss of nutrients) Soil erosion No problems please	
	specify			

6. How did you grow them?

0	Yes	0	No	
13.	13. Do you use manures or slurries in your cereal/vegetable rotation?			
0	Yes	0	No	
	What types? Estimated rates (please gon arable rotations annually.	jive	quantities/ area e.g. gallons/ acre)	
0 0 0	Pig Cattle Chicken Digestate.			
14.	. If you spread organic manures, do you ta what they provide to the subsequent crop		ccount of their nutrient values and	
0	Yes	0	No	
15.	. What crops do you grow?			
0 0 0 0	Wheat Winter barley Spring barley Potatoes Spring oats	0 0 0	Winter oats Maize Beans Carrots Oilseed rape	
0	Other – specify		please	
16.	. Between which crops would you conside	r or	have grown a cover crop?	
0 0 0 0	Winter barley – Spring crop Winter wheat – Spring crop Spring barley – Spring crop Oats – Spring crop Any cereal - Vegetables	0 0		
0	Other – specify		please 	
17. How much would you be willing to pay for cover crop seed per acre or have spent?				
0 0		0	<£20/acre Whatever provides the greatest economic return	

12. Do you think that cover crops could be a more profitable way to return organic matter compared to chopping straw given the high price of straw?

	of the machinery you currently have (making the most of what you'v				
0	Plough and sow	o Direct drill			
0	Scratch and drill	<ul> <li>Broadcast</li> </ul>			
0	Scratch and broadcast	<ul> <li>Contractor</li> </ul>			
0	Other	_	please		
	specify				
19	. How do you plan to destroy and inco	porate the crop?			
0	Herbicide	o Flail			
0	Plough straight in	o <b>Disc</b>			
0	Other	_	please		
	specify				
0	Growing cover crops is much more compared to Northern Ireland. What (Removed from ROI survey)  Shorter growing season to establish a successful cover crop Higher autumn rainfall Less knowledge about the practice		ions we have? esearch on the s / capable of ctice with grass in NI		
(Q.19.	1 ROI) Do you receive subsidies for gr	owing cover crops?			
0	Yes	o <b>No</b>			
(Q.19.	2 ROI) If subsidies were removed, wou	ld you still grow cover crop	os?		
0	Yes				
0	No				
21	. Are cover crops something you want	to know more about?			
0	Yes	o <b>No</b>			
lf	so, what would you like to have more i	nformation on?			
0	Effects on yield of subsequent crop				
0	Identification of optimal species to lo				
0	,				
	nutrient supply to subsequent crop)				
0	Effect on soil health (organic matter,				
0	Effect on soil structure (bulk density, infiltration rates and ability to relieve compaction)				
0	Most cost efficient method of sowing	for each species			
0	When and how to destroy and incorp	<u>-</u>			

18. If you plan to grow a cover crop in the future, how do you plan to sow it, in terms

0	Economics of growing them	
0	Other –	please
	specify	