Supplementary Material. Survey questions and answer options.

Q	Answer		
English	French		
In which country do you live? ¹	Dans quel pays vivez-vous?	The United StatesFranceCanada	
In which state?	Dans quelle région vivez-vous ?	Dropdown list states/regions	
Had you heard of perennial grain crops before this survey? ²	Aviez-vous déjà entendu parler de céréales pérennes ?	YesNoI do not know	
Do you identify more as:	Identifiez-vous plus comme :	 Farmer Processor (miller, baker, brewer, distiller)	
How do you describe your farm operation?	Comment définiriez-vous votre production ?	 Conventional production Transitioning to organic Mixed organic and conventional Organic (either certified or noncertified) Other, please define: 	
How many acres of cropland are you farming?	Quelle surface cultivez-vous ?	 Under 50 acres Between 50 and 250 acres Between 251 and 450 acres Between 451 and 650 acres Above 650 acres 	
What percent of your household income on average comes from selling agricultural products?	Quel pourcentage du revenu de votre foyer provient de la vente de produits agricoles ?	 Under 25% Between 25 and 50% Between 51 and 75% More than 75% 	
What do you produce?	Que produisez-vous ?	 □ Corn □ Wheat □ Barley □ Oats □ Rye □ Other cereal crops (spelt, emmer, einkorn, etc.) □ Soybeans □ Other grain crops (buckwheat, amaranth, quinoa, etc.) □ Annual forage crop(s) □ Perennial forage crop(s) □ Tree crops □ Livestock □ Other, please define: 	

Do you process grains on your farm? ³	Transformez-vous des grains sur votre exploitation?	O Yes O No
What products do you make from processing grains?	Quels produits produisez-vous à partir de grains ?	☐ Flour ☐ Malt ☐ Animal feed ☐ Other, please define:
What top 2 soil issues are you most concerned about?	Quels sont les 2 principaux problèmes de sol dans votre exploitation ?	 □ Soil-borne pests and diseases □ Low soil organic matter □ Soil compaction □ Low soil microbial activity □ Soil erosion □ Soil crusting □ Other, please define: □ I am not concerned about these soil problems on my farm
What soil conservation practices do you currently use?	Avez-vous des pratiques de conservation du sol ?	 □ No-tillage □ Conservation tillage □ Strip tillage □ Contour planting □ Terracing □ Crop rotation □ Cover cropping □ Buffer strips □ Windbreaks □ Other, please define: □ I do not currently use soil conservation practices
Please rank the top 3 reasons why you might be interested in growing perennial grains.	Merci de classer les 3 principales raisons pour lesquelles vous seriez intéressé(e) par la production de céréales pérennes.	To maintain or increase farm profitabilityTo reduce input useTo reduce labor requirementsTo reduce soil erosionTo improve soil healthTo improve water qualityTo help mitigate climate changeTo diversify crop productionTo provide wildlife habitatTo grow on sloped or marginal landTo improve weed managementTo graze or produce forage in addition to grainOther, please define:
Given the potential challenges associated with perennial grain production, what would be your top 3 concerns?	Compte tenu des défis potentiels liés à la production de céréales pérennes, quelles seraient vos 3 principales inquiétudes ?	High cost of seedIncreased pest problems (weeds, diseases, insects)Decreased grain yield over time or limited crop life spanLow grain yieldLack of market where you can sell your cropLow profitability _Low seed availability

		Difficulty harvestingSpecialized equipment requirementsLow grain qualityOther, please define:
How do you think a perennial grain could best fit into your farm operation?	Quel serait le meilleur moyen d'introduire des céréales pérennes dans votre exploitation ?	 As a long-term perennial crop on your most productive land As a long-term perennial crop on sloped or less productive land As a short-term perennial crop in standard fields that is grown as part of a multi-year rotation As a perimeter crop that serves as a buffer Other, please define I do not know
What level of interest do you have in growing perennial grains? ⁴	Quel intérêt portez-vous aux céréales pérennes ?	 Very interested Interested Not interested Definitely not interested Need more information before making this decision
Please indicate whether you agree or disagree with the following statements. ⁵	Merci d'indiquer si vous êtes d'accord ou non avec les propositions suivantes.	AgreeNeutralDisagree
If you are interested in participating in the project, trialing perennial grains on your farm, or have any questions, you may enter your name and email address below. Any contact information will be utilized for this project only and will not be shared.	Si vous êtes intéressé(e) pour participer dans le projet, tester des céréales pérennes sur votre exploitation, ou si vous avez des questions, merci d'indiquer vos coordonnées ci-dessous (adresse email et/ou téléphone). Ces informations seront utilisées uniquement pour le projet et ne seront pas diffusées.	Free answer
Is there anything else that you would like us to know (for example, suggestions for research, comments on the projects, etc.)? If yes, please fill in the text box below or click next to finish the survey.	Enfin, si vous avez des remarques, suggestions, et/ou idées à nous soumettre (par exemple, des suggestions pour la recherche, des commentaires sur le projet, etc.), merci de les indiquer ci-dessous, sinon cliquez sur suivant pour terminer le questionnaire.	Free answer
Answer types:		_

- O Multiple choice, one answer
- ☐ Multiple choice, multiple answers possible

Ranking

¹ Respondents are directed to the English or French version of the survey depending on their answer.

² If answer is No or I do not know, information is provided: To begin, here is some information about perennial grains. Most agricultural land is devoted to the production of grain crops such as corn, soybean, wheat, and rice. Combined they provide over 70% of human food calories. All these grain crops are currently annual plants, which means they need to be planted every year. Perennial grain crops are productive for two or more years after planting.

Some potential benefits of perennial grains include reduced soil erosion, greater utilization of solar radiation throughout the entire year, and greater access to nutrients and water that is deeper in the soil profile. Some potential disadvantages of perennial grains include lower grain yields compared to annual grain crops, reduced ability to use crop rotation to manage pests, and greater utilization of water. For more detailed information about perennial grain crops around the world, please see the Food and Agriculture Organization of the United Nations report titled Perennial Crops for Food Security at http://www.fao.org/3/a-i3495e.pdf

- ³ If answer is No, following question is skipped.
- ⁴ If answer is Definitely not interested or Not interested, respondent is directed directly to the two last questions of the survey.
- ⁵Statements were 1. I am interested in dual-purpose perennial crops that can be harvested for both grain and forage, 2. I would grow perennial grains to provide environmental benefits even if they were not as profitable as other crops, 3. Research funding should be spent on annual grain crops rather than developing new perennial grain crops.