

psa_farm_interview

PSA Farm Interview

Form Name

Version

Welcome Field Technicians-- Thank you for taking the time to complete this survey with each of your growers. This data will help us understand patterns across a variety of demographic and contextual variables. We could not do this work without you!

Are you new to this survey? We have a few instructions...

☐ No

☐ Yes

SURVEY NAVIGATION -- Swipe left to see a new question. Inside a "Group" of questions, scroll up and down. If you arrive at the end of a Group, and are not prompted, swipe left to continue to a new section. To navigate to the beginning or end of a survey click ARROW WITH THE DOT at the top right corner of the screen.

SURVEY FORMAT -- This survey can be done over the phone or in-person, but you will need to schedule dedicated time to talk through these questions. The survey should take around 30 minutes to complete.

Group 1: Technician and Farmer Contact Info [Q 1 to Q 7] --general contact information and can be completed PRIOR to sitting down with the grower.

Group 2: General Farm Management [Q 8 to Q 27] -- these questions target the ENTIRE farm operation, and were generated by and will be used by our Social Science Team.

GROUP 3: PSA Site Specific Questions [Q 28 to 48] -- this group is specific to the trial field history and management. If a grower has multiple trial fields, the survey will automatically prompt you to enter data for the additional fields; thus you only need to complete ONE survey per grower.

EXITING and SAVING -- You may save and exit the survey form at any point during. If there are required fields, it may ask you to fill those before saving. Saved forms will be stored on your device within the KoBoCollect App and can be edited at any time by clicking "Edit Saved Forms" in the main menu. However, once a form has been uploaded (by selecting "Send Finalized Form" in the main menu), it can no longer be edited. To Save, Click the Arrow with the Dot in the Right Corner.

Before You Begin -- You will need to know the 3-letter trial code(s) associated with each trial field. Swipe left for the first group of questions.

Group 1: Technician and Farmer Contact Information

1. State farm is located [please enter the two-letter abbreviation for your state, example: NC]

2. Field tech last name

3. Field tech phone number

4. Field tech email

5. Grower last name

6. Grower phone number

7. Grower email

Is this a farm or research station? (If this is a research station, you will skip the farmer interview portion and go directly to site history information.)

☐

Farm

☐

Research Station

Group 2: General Whole Farm Survey

8. As of today, how many total acres do you plant in crops? [acres]

9. What crops are GENERALLY in your crop rotation?

- ☐ Corn
- ☐ Soybean
- ☐ Wheat
- ☐ Cotton
- ☐ Tobacco
- ☐ Oats
- ☐ Barley
- ☐ Peanut
- ☐ Fallow
- ☐ Pasture/ Hay/ Forage
- ☐ Livestock
- ☐ Summer Cover Crop
- ☐ Horticultural Crop
- ☐ Other

10. As of today, how many of your total cropped acres are in COVER CROPS? [acres]

10.a Clarification: If COVER CROPS have already been terminated, how many acres did you have of winter cover crops prior to termination? [# acres, or leave blank if not applicable]

11. If this was a particularly bad or otherwise non-representative year, how many acres do you typically have of winter COVER CROPS? [# acres, or leave blank if not applicable]

12. In what year did you first plant COVER CROPS? [four digit year, example : 1985] *reminder, for a grower to participate, this may not be their first time planting cover crops

13. Have you planted COVER CROPS every year since?

- ☐ No
- ☐ Yes

14. Do you have a favorite cover crop?

- ☐ No
- ☐ Yes

14a. Which is your favorite? (winter cover crop)

- ☐ Cereal Rye
- ☐ Ryegrass
- ☐ Wheat
- ☐ Oats/ Black Oats
- ☐ Triticale
- ☐ Other grass spp
- ☐ Radish
- ☐ Canola/ Rape
- ☐ Other brassica spp
- ☐ Crimson Clover
- ☐ Red Clover
- ☐ Berseem Clover
- ☐ Other Clover spp
- ☐ Hairy Vetch
- ☐ Woolypod Vetch
- ☐ Common Vetch
- ☐ Other Vetch spp
- ☐ Winter Pea
- ☐ Alfalfa
- ☐ Other

15. As of today, how many of your total cropped acres are enrolled in crop insurance? [acres]

16. Have you removed crop insurance on any of your fields due to cover cropping?

- ☐ No
- ☐ Yes

16.a If you selected "Yes," please provide additional details.

17. Have you ever had problems filing a crop insurance claim because of using cover crops?

- ☐ No
- ☐ Yes

17.a If you selected "Yes," please provide additional details.

18. As of today, how many of your total cropped acres are tilled? [# acres, enter "0" if none]

18.a Clarification: Do you consider your operation:

- ☐ Intensive/conventional tillage
- ☐ Conservation/minimum tillage
- ☐ It depends on the crop

18. a1 Clarification: If you selected "it depends", please describe.

18.b Clarification: Have you ever tilled any of your cropped acres?

- ☐ No
- ☐ Yes

18.c Clarification: How many years since you last tilled any of your acres? [# of years]

19. How many of your COVER CROPPED acres are tilled? [# of acres, enter "0" if none]

19.a What kind of tillage are you doing on the COVER CROPPED acres?

- ☐ Intensive/conventional tillage
- ☐ Conservation/minimum tillage
- ☐ It depends on the crop

19. a1 Clarification: If you selected "it depends", please describe.

19.b Clarification: Have you ever tilled your COVER CROPPED acres?

- ☐ No
- ☐ Yes

19.c Clarification: How many years since you last tilled your COVER CROPPED acres? [# of years]

20. What sources of information do you seek out and use to learn more about cover crops?

21. Do you use any decision support tools. (e.g, spreadsheets, worksheets, or software tools provided by NRCS, extension specialists, or crop advisors)?

22. What types of software, if any, do you use to manage your farm data?

23. What type of devices do you use in your agricultural operations (iPad, computer, smartphone)?

24. Where do you store your yield monitor data?

25. Do you feel comfortable sharing yield monitor data?

☐ No

☐ Yes

26. Approximately what percentage of the acres you farm are rented?

27. Why are you participating in this study?

You've reached the end of the general farm questions. The next section refers to just the site (or sites) with the cover crop trial. Swipe left to the next screen to continue.

Group 3: PSA Site Specific Questions

1

The following questions pertain to the specific field(s) that your grower has in the trial. If the grower has multiple fields in trial, you will be prompted to enter information about each trial separately.

* Trial code [3-letter code]

28. How long has this site been cover cropped?

- ☐ zero - this is the first year
- ☐ 1 year
- ☐ 2 years
- ☐ 3 years
- ☐ 4 years
- ☐ 5 years
- ☐ 6 to 10 years
- ☐ More than 10 years

29. Is the trial field enrolled in crop insurance?

- ☐ No
- ☐ Yes

30. Is the trial field on rented or owned land?

- ☐ Rented
- ☐ Owned

31. What cash crops are GENERALLY in your crop rotation for this field?

- ☐ Corn
- ☐ Soybean
- ☐ Wheat
- ☐ Cotton
- ☐ Tobacco
- ☐ Oats
- ☐ Barley
- ☐ Peanut
- ☐ Fallow
- ☐ Pasture/ Hay/ Forage
- ☐ Livestock
- ☐ Summer Cover Crop
- ☐ Horticultural Crop
- ☐ Other

32. What was the previous crop last year in this field?

- ☐ Corn
- ☐ Soybean
- ☐ Wheat
- ☐ Cotton
- ☐ Tobacco
- ☐ Oats
- ☐ Barley
- ☐ Peanut
- ☐ Fallow
- ☐ Pasture/ Hay/ Forage
- ☐ Livestock
- ☐ Summer Cover Crop
- ☐ Horticultural Crop
- ☐ Other

33. How much total Nitrogen fertility was applied to the previous crop (approximately)? [lbs]

- ☐ none
- ☐ 1 to 29 lbs N/ acre
- ☐ 30 to 59 lbs N/ acre
- ☐ 60 to 89 lbs N/ acre
- ☐ 90 to 119 lbs N/ acre
- ☐ 120 to 149 lbs N/ acre
- ☐ 150 to 179 lbs N/ acre
- ☐ 180 or greater lbs N/ acre

34. When was the COVER CROP planted?

If an exact date is not known, please enter approximately, to the closest week or month.

yyyy-mm-dd

35. How was the cover crop planted?

- ☐ Drilled
- ☐ Broadcast
- ☐ Aerial Seeded
- ☐ Other

36. What cover crop species are planted?

- ☐ Cereal Rye
- ☐ Ryegrass
- ☐ Wheat
- ☐ Oats/ Black Oats
- ☐ Triticale
- ☐ Other grass spp
- ☐ Radish
- ☐ Canola/ Rape
- ☐ Other brassica spp
- ☐ Crimson Clover
- ☐ Red Clover
- ☐ Berseem Clover
- ☐ Other Clover spp
- ☐ Hairy Vetch
- ☐ Woolypod Vetch
- ☐ Common Vetch
- ☐ Other Vetch spp
- ☐ Winter Pea
- ☐ Alfalfa
- ☐ Other

37. What is the approximate total rate of all cover crop planted? (in lbs/ acre)

38. How much do you pay for cover crop seed?

- ☐ I want to answer in \$/ lb of seed, and I know my approximate seed rate per acre.
- ☐ I want to answer in \$/ truck load, and I know how many truck loads went on that field, and the field size in acres.
- ☐ I want to answer in total \$ that I spend on cover crop seed on my farm, and how many total cover crop acres on my farm.
- ☐ Other

38 a1. Price per pound seed

38 a2. Pounds of seed per acre

38 b1.Price per load

38 b2. Loads per field

38 b3. Acres of that field

38 c1. Price of seed for total cover crop acres

38 c2. Total cover crop acres

38 d. How much do you pay for cover crop seed: Other

39. Do you apply litter or fertility to your cover crop?

☐ No

☐ Yes

40. Do you do any tillage prior to terminating the COVER crop? (ie: subsoiling)

☐ No

☐ Yes

40 a. If Yes, please describe?

41. How do you terminate your COVER crop?

☐ Herbicide

☐ Mechanical

☐ Combination of Herbicide and Mechanical (ie: roller crimper)

42. What herbicides do you plan to use?

- ☐ 2 4-D
- ☐ Atrazine
- ☐ Clopyralid
- ☐ Dicamba
- ☐ Glufosinate/ Liberty
- ☐ Glyphosate/ Roundup
- ☐ Imazapyr
- ☐ Imazethapyr/ Pursuit
- ☐ Metolachlor/ Bicep/ Dual/ etc.
- ☐ Na Salt of bentazon/ Basagran
- ☐ Paraquat/Gramoxone
- ☐ Pendimethalin/Prowl
- ☐ Rimsulfuron/LeadOff
- ☐ Trifluralin/Treflan
- ☐ Pyroxasulfone/ Zidua
- ☐ Other

43. How much money do you plan to spend on herbicides to terminate cover crops in this field?

44. What is/ will be this year's crop?

(reminder to participate in this trial, fields can only be planted in corn, soybean, or cotton)

- ☐ Corn
- ☐ Soybean
- ☐ Cotton

45. What is the variety of the crop?

46. What is the maturity of the crop? (ie, number of days to harvest or soybean maturity group, or other)

*** 47. Will you do any type of tillage on this crop?**

Technicians: this trial uses only fields with conservation tillage practices, in which the surface residue of a cover crop remains intact. However some growers choose to preform some form of tillage, like strip tilling, or vertical tillage. It is important to record any soil disturbance for the water infiltration modeling team.

☐ No

☐ Yes

*** 47 a. If yes, please describe tillage.**

48. How much total Nitrogen fertilizer will this year's crop receive?

☐ none

☐ 1 to 29 lbs N/ acre

☐ 30 to 59 lbs N/ acre

☐ 60 to 89 lbs N/ acre

☐ 90 to 119 lbs N/ acre

☐ 120 to 149 lbs N/ acre

☐ 150 to 179 lbs N/ acre

☐ 180 or greater lbs N/ acre

Are there other considerations or things you want us to know about this field? (why you plant cover crops there, it stays very wet, it's generally high biomass, it's new to cover crops, etc.)

If this farm has more than 1 site/ trial for this grower, click the plus icon to add an additional site. A new group of questions will appear on the screen, above the +, so you will have to scroll back up.

Thank you for completing the Survey. Swipe to the next screen for a Timeline to share with your grower. Continue swiping until you reach the end to Submit.

TIMELINE -- a technician will be in contact this spring. Cover Crop biomass is collected in the spring at the time it is terminated. For our safety it is nice to harvest biomass right before burndown. Please notify the technician when you think you will terminate, and we can harvest +/- 3 to 4 days around that time. We can also return following herbicide application, when safe to do so. We will return when the crop is planted. When do you think that will be? How long after terminating the cover crop? It is important to record those dates. We will install moisture sensors in between the crop rows after it has emerged. Please do all of your fertilizer applications, and other management operations the same as you always would in that field. Our equipment is designed to be sprayed over. We will raise a solar panel after the crop has closed canopy. We will come take yield data by hand in a 10 foot section around the soil moisture sensors before you harvest with your combine. Please notify us when you will: terminate your cover crop, after crop planting, and before harvest. Thank you.

Technician: If there are questions that you were unable to complete at this time, you may save the survey to your device to retrieve later by clicking the arrow with the dot, selecting 'Go to End', naming the form by the farm name, and select "Save Form and Exit". Forms can be retrieved in your "Saved Forms"