

# MINNESOTA ANNUAL PESTICIDE AND FERTILIZER SURVEY

**DRAFT FOR SURVEYS BEGINNING SPRING OF 2019, 2020, 2021**

Clean Copy with all updates for 2020, 2021 incorporated (11/14/2019)

**(MASTER)  
(Conducted by phone only)**

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**United States  
Department of  
Agriculture**



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

These questions will be asked for each of the following crops: 1) Corn, 2) Soybeans, 3) All wheat, and 4) All hay Crops that are a target for ARMS Phase II in a given year will not be asked.



**MINNESOTA  
DEPARTMENT OF  
AGRICULTURE**

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Please make corrections to name, address and ZIP Code, if necessary.

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses ANY identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: <https://www.nass.usda.gov/confidentiality>. Response is **voluntary**.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB number is 0535-0218. The time required to complete this information collection is estimated to average 35 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The Minnesota Department of Agriculture, in cooperation with the National Agricultural Statistics Service (NASS), will conduct periodic surveys of major crop producers that collect information on pesticide and fertilizer use and pesticide use rates. Survey respondents are randomly selected, and the reported results are based on advanced standardized statistical analyses conducted by NASS nationwide. Your response is necessary to help provide the best statistics possible. If there are any questions, contact the Minnesota State Statistician at (615) 728-3113.

1. Did this operation plant any [*<Crop 1>*] or [*<Crop 2>*] in [*Year*]?

<sup>1</sup>  Yes - Continue    <sup>3</sup>  No – Go to Conclusion

**Section 2 – 2019 *<Crop 1>* Crop Acres**

2. How many acres of *<Crop 1>* were planted for the 2019 crop year? .....

Acres
xxx

[If *<Crop 1>* acres greater than zero, then continue, otherwise go to **Section 3.**]

3. How many acres of *<Crop 1>* were treated with herbicides? .....

Acres
xxx

4. How many acres of *<Crop 1>* were treated with insecticides? (Exclude seed treatments) .....

xxx
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5. How many acres of *<Crop 1>* were treated with fungicides? (Exclude seed treatments) .....

xxxx
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**Section 3 – 2019 [*<Crop 2>*] Crop Acres**

6. How many acres of [*<Crop 2>*] were harvested for the 2019 crop year? .....

Acres
xxx

[If [*<Crop 2>*] acres are greater than zero then continue, otherwise go to **Section 4.**]

Acres
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- 7. How many acres of [*<Crop 2>*] were treated with herbicides?. . . . .
- 8. How many acres of [*<Crop 2>*] were treated with insecticides? (Exclude seed treatments). . . . .
- 9. How many acres of [*<Crop 2>*] were treated with fungicides? (Exclude seed treatments). . . . .

xxx
xxx
xxxx





[If Herbicide, Insecticide or Fungicide type or quantity is unknown] Would a chemical dealer, co-op or applicator know what Herbicide, Insecticide or Fungicide were applied? Yes\_\_ No\_\_

If Yes, may we call them to get the missing information about chemicals applied?

What is the name of the company? \_\_\_\_\_

Who should we contact for this follow up information? \_\_\_\_\_

Who should we contact at that company? \_\_\_\_\_

If Section 2, Q8> 0, then Continue, Elseif Section 2, Q6>0 skip to Question 10, Else goto Section 6.

1. If insecticide was applied to the 2019 soybean crop, how it was applied (choose all that apply)?
  - a. Farmer- ground application
  - b. Farmer- aerial application
  - c. Dealer- ground application
  - d. Dealer- aerial application
  - e. Other
2. For what insect, insecticide application was made (choose all that apply)?
  - a. Soybean aphid,
  - b. Spider mites,
  - c. Others
  - d. Do not know

*If 2a=soybean aphid then ask questions 3,4,5,6, otherwise move to question 7*

3. Who scouted the fields for soybean aphid (choose all that apply)?
  - a. Farmer
  - b. Dealer
  - c. Crop consultant
  - d. Other than the above
  - e. Did not scout
  - f. Do not know
4. What threshold (aphids per plant) did you use for applying the insecticide for soybean aphid (select one)?
  - a. Did not use thresholds
  - b. 1-30,
  - c. 31-50,
  - d. 51-100,
  - e. 101-150,
  - f. 151-200,
  - g. 201-250
  - h. Over 250
  - i. Do not know
5. Were records kept for soybean aphid thresholds?
  - a. Yes, for all fields
  - b. Yes, for some fields
  - c. No
  - d. Do not know
6. What factors other than thresholds did you consider to make insecticide application for soybean aphid (choose all that apply)?
  - a. Did not consider anything other than thresholds
  - b. Followed an IPM plan
  - c. Followed a calendar schedule
  - d. Followed advice from dealer
  - e. Followed advice from crop consultant
  - f. Followed other farmers
7. What factors other than cost and effectiveness were considered important when choosing an insecticide product (choose all that apply)?

- a. Safety to the applicator
  - b. Safety to insect predators
  - c. Setbacks from water
  - d. Label language regarding bees
  - e. None
8. Were there any bee hives within 3 miles of any soybean field when insecticide was applied?
- a. Yes
  - b. No
  - c. Do not know
9. What setbacks from water, if any, were used?
- a. None
  - b. Setbacks listed on the label
  - c. Label did not require setbacks from water
  - d. No water around the field
  - e. Do not know
10. What percentage of your soybean seeds were treated with insecticide (for all soybean acres)? (This question is placed at the end to avoid confusion with other insecticide application questions)
- a. None
  - b. 1-25
  - c. 26-50
  - d. 51-75
  - e. 76-99
  - f. 100
  - g. Do not know

## Section 6 – <Crop 1> Fertilizer Management

I will now ask you about your fertilizer inputs on <Crop 1> acres.

Did all your <Crop 1> fields receive manure for the [2019] crop year?

1. Yes, all my <Crop 1> fields received manure. Go to Section 7.
2. No, I have at least 1 <Crop 1> field with no manure applied. - Continue

First on a <Crop 1> field with no manure or compost applied in the fall of [2018] and no manure or compost applied anytime during the 2019 crop year.

**A1.** Do you have a <Crop 1> field without manure applied in the fall of 2018 or anytime in [2019] before or during the crop year? Yes \_\_\_\_ [continue] No \_\_\_\_ [Skip to Section 7]

Think about your largest <Crop 1> field that you planted in 2019 without any manure.

I will now ask you questions about that specific field. All following questions will be in relation to that specific field.

**A5.** How many acres are in this field in 2019? \_\_\_\_\_

**A2.** Was this field irrigated? Yes No

**A3.** What was the crop grown on this field in 2018 before the 2019 <Crop 1> crop? (Not including cover crop)

- 1 Soybeans
- 2 corn
- 3 alfalfa (any alfalfa mix)
- 4 small grains (oat, wheat, rye, barley)

Respondent Name: _____	9911	9910	MM	DD	YY
Phone: _____		Date: ____	____	____	____

**This completes the survey. Thank you for your help.**

Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID			
1-Comp	9901	1-Op/Mgr	9902	1-Mail	9903	9998	9900	9985	9989			
2-R		2-Sp		2-Tel					_____			
3-Inac		3-Acct/Bkpr		3-Face-to-Face					_____			
4-Office Hold		4-Partner		4-CATI					_____			
5-R – Est		9-Oth		5-Web					_____			
6-Inac – Est				6-e-mail					_____			
7-Off Hold – Est				7-Fax					_____			
		8-CAPI	9907									
		19-Other	9908									
			9906									
			9916									

S/E Name

99 other

**A4. If corn [A3 (2)]** What was the crop harvested from this field in the 2017 season, before the last two crops?

- 1 Soybeans
- 2 corn
- 3 alfalfa (any alfalfa mix)
- 4 small grains (oat, wheat rye, barley)
- 99 other

What was the yield goal when planting this field in 2019? \_\_\_\_\_ bushels per acre.

**A6.** What was the average yield of this field over the past three <Crop 1> crops? (or estimate if unknown) \_\_\_\_\_

**A7.** Was any commercial fertilizer applied to this <Crop 1> field for the 2019 <Crop 1> crop? Yes No  
IF no go to Section 7.

**A8.** Was any commercial fertilizer applied with a variable rate or more than one rate such as by management zone or grid on this <Crop 1> field? Yes No

If yes, please use a field average for all the fertilizer rate questions.

