

MINNESOTA ANNUAL PESTICIDE AND FERTILIZER SURVEY

COPY FOR CROP YEAR 2025 SURVEY COLLECTED SPRING OF 2026 Wheat and Soybean – Updated 8/18/2025

OMB No.0535-0273
Approval Expires:
Project Code: 778 QID: 163695
SMetaKey: 3695



United States
Department of
Agriculture



NATIONAL
AGRICULTURAL
STATISTICS
SERVICE



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 and Statistical Efficiency Act of 2018, Title III of Pub. L. No. 115-435, codified in 44 U.S.C. Ch. 35 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.

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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 Department of Agriculture at (651) 201-6336.

1. Did this operation plant any *[[WHEAT]]* or *[[SOYBEAN]]* in 2025?

¹☐ Yes - Continue ³☐ No – Go to Conclusion

Section 2 – 2025 *[[Wheat]]* Crop Acres

Acres

xxx

2. How many acres of *[[Wheat]]* were planted for the 2025 crop year?

[If *[[Wheat]]* acres greater than zero, then continue, otherwise go to **Section 3.**]

Acres

xxx

3. How many acres of *[[Wheat]]* were treated with herbicides (week killer)?

xxx

4. How many acres of *[[Wheat]]* were treated with insecticides? (Exclude seed treatments).

xxxx

5. How many acres of *[[Wheat]]* were treated with fungicides? (Exclude seed treatments).

Section 3 – 2025 *[[Soybean]]* Crop Acres

Acres

xxx

6. How many acres of *[[Soybean]]* were planted for the 2025 crop year?

[If *[[Soybean]]* acres are greater than zero then continue, otherwise go to **Section 4.**]

7. How many acres of *[[Soybean]]* were treated with herbicides (week killer)?
8. How many acres of *[[Soybean]]* were treated with insecticides? (Exclude seed treatments).
9. How many acres of *[[Soybean]]* were treated with fungicides? (Exclude seed treatments).

Acres
xxx
xxx
xxxx

1. In the following table, please report all herbicides, insecticides and fungicides used on the 2025 *[[Soybean]]* crop.

[illegible]

[If Herbicide, Insecticide or Fungicide type or quantity is unknown] May we call your dealer, co-op or applicator about the chemicals applied to your operation? Yes__ No__

If Yes, What is the name of the company? _____

Who should we contact for this follow up information? _____

Who should we contact at that company? _____

Section 6 – [Wheat] Fertilizer Management

I will now ask you about your fertilizer inputs on [Wheat] acres.

Did all your [Wheat] fields receive manure for the [2025] crop year?

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

First on a [Wheat] field with no manure or compost applied in the fall of [2024] and no manure or compost applied anytime during the 2025 crop year.

Think about your largest [Wheat] field that you planted in 2025 without any manure.

All following questions will be in relation to that specific field.

A1. How many acres were in this field in 2025? _____

A2. Was this field irrigated? Yes No

A3. What was the crop grown on this field in 2024 before the 2025 [Wheat] crop? (Not including cover crop)

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

A4. If Wheat [A3 (2)] What was the crop harvested from this field in the 2023 season, before the last two crops?

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

A5. What was the yield goal when planting this field in 2025? _____ bushels per acre.

A6. What was the average yield of this field over the past three [Wheat] crops? (or estimate if unknown) _____

A7. Was any commercial fertilizer applied to this [Wheat] field for the 2025 [Wheat] 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 [Wheat] field? Yes No

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

A9. What was the total units (actual pounds) of nitrogen per acre applied to this field from all sources and all applications? _____

A9. What type of fertilizer was used to supply the majority of the nitrogen applied to this field?

- 10 Anhydrous Ammonia
- 11 Urea (urea and coated urea such as ESN or Super U)
- 12 Liquid N (such as 28% or 32%)
- 13 Other
- 99 Unknown

A10. Did you use a nitrogen inhibitor or stabilizer on this field? Yes No DK

A11. If A10=Yes, then What type of nitrogen inhibitor or stabilizer did you use?

1. N-Serve
2. Instinct
3. Centuro
4. ESN
5. Other

I will now ask you for all your commercial fertilizer applications made to this field for the 2025 crop year, again including any 2024 fall applications of commercial fertilizer. Each individual application will be recorded separately, preferably as units per acre.

This will include all fall applications in 2024 and all 2025 applications including pre-plant applications, starter/planter applications and post plant applications.

[Wheat] Field

	Beginning with the first application, when was each commercial fertilizer applied? 1) In the Fall 2) Spring pre-plant 3) At Planting 4) Sidedress 5) Topdress 6) Irrigation	How many units per acre of each were applied? [Actual Pounds]				How was this product applied 1) Broadcast - Incorporated 2) Broadcast - Not Incorporated 3) Injected 4) With planter 5) Sidedress - Incorporated 6) Sidedress - Not Incorporated 7) Irrigation 8) Topdress 9) Other
		[Enter Code]	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	
Application 1						
Application 2						
Application 3						
Application 4						
Application 5						
Application 6						

[If Fertilizer or Nutrient type or quantity is unknown] May we call your dealer, co-op or applicator to about the fertilizers and nutrients applied to your operation? Yes__ No__

If Yes, What is the name of the company? _____

Who should we contact at that company? _____

Section 7: [Wheat] Manure Management

[Wheat] Field with manure applied.

M1 Now I will ask about a [Wheat] field that was applied with manure for the 2025 growing season.

(1) Press Enter to continue

M2 How many of your 2025 [Wheat] acres received manure? _____ acres

[If 0, Skip to Section 8]

Think about your largest [Wheat] field you planted in 2025 with manure applied for the 2025 growing season, including the fall of 2024]. I will ask you questions about that specific field. All questions should be in relation to that field.

(1) Continue : Press Enter to continue

M5 How many acres are in the field? _____

M3 What was the crop planted on this field in 2024?

- (1) Soybeans
- (2) Corn
- (3) Alfalfa (any alfalfa mix)
- (4) Small Grains (oats, wheat, rye, barley)
- (99) Other _____

M4 Was alfalfa the previous crop grown in 2023 before the 2024 [Wheat] crop you previously mentioned?

- (1) YES
- (3) NO

What was the yield goal when planting this field in 2024? _____ bushels per acre.

M6 What was the average yield of this field over the last 3 [Wheat] crops? (or estimate if unknown) _____

M7 Did the whole [Wheat] field receive manure?

- (1) YES
- (3) NO

M8 What is the **main** source of manure used on the field?

- (1) Dairy
- (2) Beef
- (3) Hog
- (4) Poultry
- (5) Other (goat, sheep, horse, etc.)
- (99) Don't Know

M9 Was the manure applied solid or liquid? Enumerator Note – If farmer reports both solid and liquid, probe by asking “Is the majority of manure applied as a liquid or solid?”

- (1) Solid
- (2) Liquid

If Solid, what was the rate applied in tons per acre? _____

If Liquid, what was the rate applied in gallons per acre? _____

What was the date manure application began? _____

M13 Did you use a nitrogen inhibitor or nitrogen stabilizer on this field?

- (1) YES
- (3) NO

If M13 = Yes, then Did you use Instinct in your manure?

- a. Yes
- b. No
- c. Do not know

M14 What is the total amount of 1st year available Nitrogen applied from the manure as units? (Actual pounds of nitrogen per acre). _____

M20 Was this manure from your own farm operation?

- (1) YES
- (3) NO

M21 When was the last time the manure was tested for nutrient content?

- (1) This year (include 2024 fall applications for the 2025 crop year)
- (2) Last 3 years
- (3) Over 3 years ago
- (4) Don't Test

M18 Did you also apply commercial fertilizers to this field for the 2025 crop year?

- (1) YES
- (3) NO

M19 What were the total units of Nitrogen applied per acre to this field from commercial fertilizers for 2025 crop year, including all sources? Don't forget the starter may include Nitrogen as well as phosphorus or sulfur sources.

Section 8 – *[[Soybean]]* Fertilizer Management

I will now ask you about your fertilizer inputs on *[[Soybean]]* acres.

Did all your *[[Soybean]]* fields receive manure for the 2025 crop year?

- 1. Yes, all my *[[Soybean]]* fields received manure. Go to Section 9.
- 2. No, I have at least 1 *[[Soybean]]* field with no manure applied.

First on a *[[Soybean]]* field with no manure or compost applied in the fall of 2024 and no manure or compost applied anytime during the 2025 crop year.

Think about your largest *[[Soybean]]* field that you planted in 2025 without any manure.

All following questions will be in relation to that field.

A1. How many acres were in the largest field planted to soybeans without manure in 2025? _____

A2. Was this field irrigated? Yes No

A3. What was the crop grown on this field in 2024 before the 2025 *[[Soybean]]* crop? (Not including cover crop)

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

A4. What was the yield goal when planting this field in 2025? _____ bushels per acre.

A6. What was the average *[[Soybean]]* yield of this field over the past three *[[Soybean]]* crops? (or estimate if unknown)

A7. Was any commercial fertilizer applied to this *[[Soybean]]* field for the 2025 *[[Soybean]]* crop? Yes No
IF no go to **Section 9**.

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

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

A9. What was the total units (actual pounds) per acre of nitrogen applied to this field from all sources and all applications on this field? _____

A9. What type of fertilizer was used to supply the majority of the nitrogen applied to this field?

- 10 Anhydrous Ammonia
- 11 Urea (urea and coated urea such as ESN or Super U)
- 12 Liquid N (such as 28% or 32%)
- 13 Other
- 99 Unknown

A10. Did you use a nitrogen inhibitor or stabilizer on this field? Yes No DK

A11. [IF yes to A10] What type of nitrogen inhibitor or stabilizer did you use?

- 1. N-Serve
- 2. Instinct
- 3. Centuro
- 4. ESN
- 5. Other

I will now ask you for all your commercial fertilizer applications made this this field for the 2025 crop year, again including any 2024 fall applications of commercial fertilizer. Each individual application will be recorded separately, preferably as units per acre.

This will include all fall applications in 2024 and all 2025 applications including pre-plant applications, starter/planter applications and post plant applications.

[Soybean] Field

	Beginning with the first application, when was each commercial fertilizer applied? 1) In the Fall 2) Spring pre-plant 3) At Planting 4) Sidedress 5) Topdress 6) Irrigation	How many units per acre of each were applied? [Actual Pounds]				How was this product applied 1) Broadcast - Incorporated 2) Broadcast - Not Incorporated 3) Injected 4) With planter 5) Sidedress - Incorporated 6) Sidedress - Not Incorporated 7) Irrigation 8) Topdress 9) Other
		N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	
	[Enter Code]					[Enter Code]
Application 1						
Application 2						
Application 3						
Application 4						
Application 5						
Application 6						

[If Fertilizer or Nutrient type or quantity is unknown] May we call your dealer, co-op or applicator about the fertilizer and nutrients applied to you operation? Yes__ No__

If Yes, What is the name of the company? _____

Who should we contact at the company? _____

Section 9: [Soybean] Manure Management

[Soybean] Field with manure applied.

M1 Now I will ask about a [Soybean] field that was applied with manure for the 2025 growing season.

(1) Press Enter to continue

M2 How many of your 2025 [Soybean] acres received manure? _____ acres

[If 0, Skip to Section 10]

Think about your largest [Soybean] field you planted in 2025 with manure applied for the 2025 growing season, including the fall of 2024. I will ask you questions about that specific field. All questions should be in relation to that field.

(1) Continue : Press Enter to continue

M5 How many acres are in your largest soybean field applied with manure? _____

M3 What was the crop planted on this field in 2024?

- (1) Soybeans
- (2) Corn
- (3) Alfalfa (any alfalfa mix)
- (4) Small Grains (oats, wheat, rye, barley)
- (99) Other _____

M5. What was the yield goal when planting this field in 2025? _____ bushels per acre.

M6 What was the average yield of this field over the last 3 [Soybean] crops? (estimate if unknown) _____

M7 Did the whole [Soybean] field receive manure?

- (1) YES
- (3) NO

M8 What is the **main** source of manure used on the field?

- (1) Dairy
- (2) Beef
- (3) Hog
- (4) Poultry
- (5) Other (goat, sheep, horse, etc.)
- (99) Don't Know

M9 Was the manure applied solid or liquid? Enumerator Note – If farmer reports both solid and liquid, probe by asking “Is _____ the majority of manure applied as a liquid or solid?”

- (1) Solid
- (2) Liquid

If Solid, what was the rate applied in tons per acre? _____

If Liquid, what was the rate applied in gallons per acre? _____

What was the date manure application began on your largest soybean field? _____

M13 Did you use a nitrogen inhibitor or nitrogen stabilizer on this field?

- (1) YES
- (3) NO

[IF yes to A10] What type of nitrogen inhibitor or stabilizer did you use?

1. N-Serve
2. Instinct
3. Centuro
4. ESN
5. Other

M14 What is the total amount of 1st year available Nitrogen applied from the manure as units? (actual pounds of nitrogen per acre). _____

M20 Was this manure from your own farm operation?

- (1) YES
(3) NO

M21 When was the last time you manure was tested for nutrient content?

- (1) This year (include 2024 fall applications for the 2025 crop year)
(2) Last 3 years
(3) Over 3 years ago
(4) Don't Test

M18 Did you also apply commercial fertilizers to this field for the 2025 crop year?

- (1) YES
(3) NO

M19 What were the total units of Nitrogen applied per acre to this field from commercial fertilizers for 2025 crop year, including all sources? Don't forget the starter may include Nitrogen as well as phosphorus or sulfur sources.

Section 10: Soil Sampling and Cover Crops – [All Survey Respondents]

What type of soil sampling did you do in the last 5 years on your farm? [Select all that apply]

- 1) Traditional
- 2) Grid
- 3) Zone
- 4) In-season Nitrate test
- 5) No soil sampling done

[if 4 was selected as an option in question above]

What soil nitrate test did you do use in 2025 or the fall of 2024? (select all that apply)

- 1) Fall of 2024 nitrate 24-inch-deep test, ~~specifically for nitrate for the following 2024 wheat crop~~
- 2) Spring nitrate 24-inch-deep test, ~~specifically for nitrate for the 2024 wheat crop~~
- 3) Pre sidedress soil test specifically for nitrate ~~for the 2025 wheat crop~~
- 4) Other
- 5) Don't know

Did you tissue test on Wheat or soybeans?

- Yes
No

How many of your 2025 Wheat acres were planted following a cover crop? _____

How many of your 2025 Soybean acres were planted following a cover crop? _____

Section 11: Treated Seed Question [new questions 1-5]

- 1) What percent of your (soybean) acres are planted with treated seeds?
- 2) [If >0 percent], Which seed treatments were included (choose all that apply)?
 - a) Insecticide
 - b) Fungicide
 - c) Other
 - d) Unsure
- 3) [If 2A selected above], why seed treatment include an insecticide (choose all that apply)?
 - b) For known soil insect problems
 - c) For possible soil insect problems
 - d) For possible above-ground insect problems
 - e) It was a part a treated seed package and I had no choice
 - f) It was required to get a replant guarantee
 - g) Unsure

Section 12: Pesticide Application method

If any pesticides applied to soybean acres

- 4) How were your pesticide applications made to your (soybean) crop (choose all that apply)?
 - a) Ground application
 - b) Manned aerial application
 - c) Unmanned aerial application (drone)
 - d) Chemigation
 - e) Other

If any pesticides applied to soybean acres

- 5) How do you decide when to make a pesticide application (choose all that apply)?
 - a) Follow an Integrated Pest Management plan including thresholds
 - b) Follow a calendar-based schedule for pesticide applications
 - c) Follow advice from dealer
 - d) Follow advice from crop consultant
 - e) Adopt practices used by other farmers

Section 13: Soybean Insecticide Questions [moved from above]

If Section 13, Q8> 0, then ask questions 1-10 in Section 13, else skip

You reported insecticides were applied to your soybean crop. The next questions will ask about those insecticide applications.

1. Where do you get your information when deciding which insecticide product to use (list all that apply)?
 - a. My Dealer/Coop/industry representative
 - b. Independent consultant
 - c. University extension
 - d. Other farmers
 - e. Internet
 - f. Other
2. How was the insecticide applied to your 2025 soybean crop (choose all that apply)?
 - a. Farmer- ground application
 - b. Farmer- aerial application

- c. Dealer- ground application
- d. Dealer- aerial application
- e. Other

3. Which insects were you targeting? (choose all that apply)
- a. Soybean aphid,
 - b. Spider mites,
 - c. Others
 - d. Do not know

[If 4a=soybean aphid then ask questions 5,6,7,8, otherwise move to question 9]

4. Who scouted your soybean fields for aphids? (choose all that apply)
- a. Farmer
 - b. Dealer
 - c. Crop consultant
 - d. Other than the above
 - e. Did not scout
 - f. Do not know
5. 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
6. Were records kept for soybean aphid thresholds?
- a. Yes, for all fields
 - b. Yes, for some fields
 - c. No
 - d. Do not know
7. 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 Integrated Pest Management plan
 - c. Followed a calendar schedule
 - d. Followed advice from dealer
 - e. Followed advice from crop consultant
 - f. Followed other farmers
8. 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. Weather
 - f. Aphid resistance
 - g. None
9. Were there any bee hives within 3 miles of any soybean field when insecticide was applied?
- a. Yes
 - b. No
 - c. Do not know

10. What setbacks from water, if any, were used?

- a. No setbacks
- b. Setbacks listed on the label
- c. Label did not require setbacks from water
- d. No water around the field
- e. Do not know

11. 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

Survey Results: To receive the complete results of this survey when it is released, go to

<http://www.mda.state.mn.us/chemicals/pesticides/pesticideuse.aspx> and

<http://www.mda.state.mn.us/en/protecting/cleanwaterfund/gwdwprotection/nutrientmgmtsurvey.aspx>

Respondent Name: _____	9911 Phone: _____	9910 MM DD YY Date: _ _ _ _ _ _
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This completes the survey. Thank you for your help.

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

S/E Name _____