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| **MINNESOTA ANNUAL PESTICIDE AND FERTILIZER SURVEY** |

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|  | OMB No. 0535-0273 Approval Expires: 05/31/2025Project Code: 778 QID: 163695SMetaKey: 3695 |
| **Clean Copy for Crop Year 2023** **Survey collected spring of 2024**Corn and Wheat – Updated 2/17/2023 |
| **SURVEY_LOGO_1:USDA_logo_bw.gif** | **United States****Department of****Agriculture** |
|  |  |  |  | **NATIONAL****AGRICULTURAL****STATISTICS****SERVICE** |

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| ``````1` |  | Updated questions for Spring of 2024 highlighted.  |  |  |  |  | **MINNESOTA DEPARTMENT OF AGRICULTURE** |
|  |  |  |  |  |  | **USDA/NASS -** **MN** 210 Walnut St., #833Des Moines, IA 50309 Phone: 1-800-772-0825 FAX: 1-855-271-9802 e-mail: NASSRFOUMR@nass.usda.gov  |
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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. |

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| 1. Did this operation plant any *[[CORN]]* or *[[WHEAT]]* in 2023? |
| 1[ ]  Yes - Continue |  3[ ]  No – Go to Conclusion |

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| **Section 2 – 2023 *[Corn]* Crop Acres** | **Acres** |
| 2. How many acres of *[Corn]* were planted for the 2023 crop year?. . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | xxx |
| [If *[Corn]* acres greater than zero, then continue, otherwise go to **Section** **3**.] | **Acres** |
| 3. How many acres of *[Corn]* were treated with herbicides?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | xxx |
| 4. How many acres of *[Corn]* were treated with insecticides? (Exclude seed treatments). . . . . . . . . . . . .  | xxx |
| 5. How many acres of *[Corn]* were treated with fungicides? (Exclude seed treatments). . . . . . . . . . . . . .  | xxxx |

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| **Section 3 – 2023 *[[Wheat]]* Crop Acres**  | **Acres** |
| 6. How many acres of *[[Wheat]]* were harvested for the 2023 crop year?. . . . . . . . . . . . . . . . . . . . . . . .  | xxx |
| [If *[[Wheat]]* acres are greater than zero then continue, otherwise go to **Section** **4**.] | **Acres** |
| 7. How many acres of *[[Wheat]]* were treated with herbicides?. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .  | xxx |
| 8. How many acres of *[[Wheat]]* were treated with insecticides? (Exclude seed treatments). . . . . .. . . . . .  | xxx |
| 9. How many acres of *[[Wheat]]* were treated with fungicides? (Exclude seed treatments). . . . . . . . . . . .  | xxxx |

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| **Section 4**  |
| **INSTRUCTION:** The next questions will ask about USAGE OF INDIVIDUAL HERBICIDES, INSECTICIDES AND FUNGICIDES ON 2023 CROPS.**Include** applications in the fall of 2022 on crops for the 2023 harvest. Report the acres treated with each individual chemical during 2023 by crop or land use. If pesticides were applied in combination, report each separately. (**Exclude** seed treatments and inoculants.) If **Section 2** *[Crop 1]* crop acres, items 2, 3, or 4 are greater than zero, complete. Otherwise go to **Section 5**. |
| 1. In the following table, please report all herbicides, insecticides and fungicides used on the 2023 *[Corn]* crop. |
| What Herbicide, Insecticide or Fungicide was applied to the 2023 *[Corn]* Crop?Name | Product CodeCode | How many acres of *[Corn]* were treated with Product?Acres | How many applications of Product were made for the 2023 *[Corn]* crop? (If product was applied multiple times in a season, record each application and its rate on separate lines).Number | At what rate was product appliedRate | Was that rate:1 – Pounds12 – Gallons13 – Quarts14 – Pints15 – Ounces30 – Grams Code |
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**Corn Herbicide Questions:**

1. Please select which of the following best represents your view of the Minnesota Department of Agriculture’s herbicide Best Management Practices for water quality?
	1. the best management practices are not restrictive enough to protect water quality
	2. The best management practices are too restrictive for protecting water quality
	3. The best management practices are well designed and fair to protect water quality
	4. I don’t currently have enough knowledge of the best management practices to answer.
2. **Think about your largest corn field**. How many pre emergence/preplant applications of herbicides did you apply on this field? *Enter number*
3. (*If one or more*), did you incorporate the herbicides in the soil?
	1. Yes
	2. No
	3. Some
4. How many **post** emergence applications of herbicides did you apply on this field? *Enter number*
5. Who scouted for weeds on your corn acres in 2019? Please list all that apply.
	1. Farmer
	2. Dealer
	3. Independent crop consultant
	4. Other
	5. Did not scout
	6. Do not know
6. Do you rotate your herbicide “Site of Action” on a yearly basis (different from previous year) on your corn fields?
	1. Yes, all fields
	2. Yes, some fields,
	3. No
	4. Do not know.
7. Did your corn fields have more than 30% residue when you planted your corn?
	1. Yes, all fields
	2. Yes, some fields
	3. No
	4. Do not know
8. How often did you calibrate your sprayer (or have it calibrated) for the 2019 corn crop?
	1. Don’t have a sprayer or didn’t use it on 2019 corn crop
	2. Once per year
	3. Twice per year
	4. Three times per year or more
	5. Did not calibrate
9. Several herbicides require an application setback for surface water. Who identifies the sites where application setbacks are required? Please list all that apply.
	1. Farmer
	2. Dealer
	3. Independent crop consultant
	4. Other
	5. No surface water around my corn acres.
10. Would you consider planting treated seed without an insecticide included in the seed treatment?
	1. Will not consider it
	2. Unlikely to consider it
	3. May consider it.
	4. Will consider it.

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| **Section 5**  |
| **INSTRUCTIONS**: If **Section** 3 (*[[Wheat]]* crop acres), items 2, 3 or 4 are greater than zero, complete. Otherwise go to **Section** **6**. |
| 1. In the following table, please report all herbicides, insecticides and fungicides used on the 2023 *[[Wheat]]* crop. |
| What Herbicide, Insecticide or Fungicide was applied to the 2023 *[[Wheat]]* Crop?Name | Product CodeCode | How many acres of *[[Wheat]]* were treated with Product?Acres | How many applications of Product were made for the 2023 *[[Wheat]]* crop? (If product was applied multiple times in a season, record each application and its rate on separate lines).Number | At what rate was product appliedRate | Was that rate:1 – Pounds13 – Quarts14 – Pints15 – Ounces Code |
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[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? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The next questions are intended for all crops with a focus on use of IPM for insect pests.  Integrated Pest management, or IPM, is an approach that uses multiple pest control tactics in order to minimize economic, environmental, and human health risks.

IPM Questions

1. What is your primary source of information on Integrated Pest Management for insects?
	1. University extension
	2. Independent crop consultant
	3. Seed or chemical company representative
	4. Internet
	5. Other farmers
	6. Other
	7. I do not get information about IPM for insects
2. Which of these Integrated Pest Management practices do you use for insect pest management (select all that apply)?
	1. Biological control (Enum Note use of beneficial insects to kill pests)
	2. Cultural control (Enum Note tillage, crop rotation, delayed planting)
	3. Resistant or tolerant crop seed selection (Enum Note. Bt traits, cultivar selection)
	4. Physical control (Enum Note barriers around crops such as high and low tunnels)
	5. Chemical control (Enum Note pesticides)
	6. Other
	7. I don’t have pests to manage
3. What do you view as the primary challenge for implementing Integrated Pest Management?
	1. Cost
	2. Time
	3. Understanding of how to use Integrated Pest Management
	4. Other
	5. I don’t see any challenges

1. If insecticide was used on your Corn, was the decision to use insecticide based on scouting results from the field where the applications were applied?
	1. Yes
	2. No
	3. Occasionally
	4. Insecticide was not used
2. If insecticide was used on your Wheat, was the decision to use insecticide based on scouting results from the field where the applications were applied?
	1. Yes
	2. No
	3. Occasionally
	4. Insecticide was not used
3. Do you use pest update information from any of the following sources to make insect pest management decisions (choose all that apply)?
	1. Text alerts
	2. Postal mail
	3. Email
	4. Social media
	5. Websites and/or blogs
	6. Other
	7. I do not use pest updates to make management decisions
4. What factors do you consider when choosing an insecticide (list all that apply)?
5. Insect resistance to certain insecticides
6. Rotation of modes of action
7. Toxicity of insecticide to bees
8. Toxicity of insecticide to humans
9. Prior experience with insecticide
10. Cost of insecticide
11. Other
12. No insecticides are used

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| **Section 6 – *[Corn]* Fertilizer Management**I will now ask you about your fertilizer and irrigation for your [Corn] acres.Did all your [Corn] fields receive manure for the [2023] crop year?1. Yes, all my [Corn] fields received manure. Go to Section 7.
2. No, I have at least 1 [Corn] field with no manure applied. - Continue

First on a *[Corn]* field with no manure or compost applied in the fall of *[2022]* and no manure or compost applied anytime during the *2023* crop year.**A0.** How many irrigated [*Corn*] acres did you have in 2023? \_\_\_\_\_\_\_\_\_\_\_\_ acres**A1.** Do you have a *[Corn]* field without manure applied in the fall of *2022* or anytime in *[2023]* before or during the crop year? Yes\_\_\_\_ [continue] No\_\_\_\_ [Skip to Section 7]Think about your largest *[Corn]* field that you planted in *2023* 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 *2023*? \_\_\_\_\_\_\_\_\_\_\_\_\_\_**A2.** Was this field irrigated? Yes No**A3.** What was the crop grown on this field in *2022* before the *2023 [Corn]* crop? (Not including cover crop)1 Soybeans2 corn3 alfalfa (any alfalfa mix)4 small grains (oat, wheat, rye, barley)99 other**A4. If Corn** [**A3** (2)] What was the crop harvested from this field in the 2021 season, before the last two crops?1 Soybeans2 corn3 alfalfa (any alfalfa mix)4 small grains (oat, wheat rye, barley)99 otherWhat was the yield goal when planting this field in 2023? \_\_\_\_\_\_\_\_\_\_ bushels per acre. **A6.** What was the average yield of this field over the past three *[Corn]* crops? (or estimate if unknown) \_\_\_\_\_**A7.** Was any commercial fertilizer applied to this *[Corn]* field for the *2023* *[Corn]* crop? Yes NoIF 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 [Corn] field? Yes NoIf 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 Ammonia11 Urea (urea and coated urea such as ESN or Super U)12 Liquid N (such as 28% or 32%)13 Other99 Unknown**A10.** Did you use a nitrogen inhibitor or stabilizer on this field? Yes No DKI will now ask you for all your commercial fertilizer applications made on this field for the *2023* crop year, again including any *2022* fall applications of commercial fertilizer. Each individual application will be recorded separately, preferably as units per acre.This will include all fall applications in *2022* and all *2023* applications including pre-plant applications, starter/planter applications and post plant applications. ***[Corn]* Field** [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 for this follow up information? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Who should we contact at that company? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Section 7: [Corn] Manure Management****[Corn] Field with manure applied.**M1 Now I will ask about a [Corn] field that was applied with manure for the 2023 growing season.(1) Press Enter to continueM2 How many manured [Corn] acres did you have in 2023?  \_\_\_\_\_\_\_\_\_\_\_\_\_ acres[If 0, Skip to Section 8]Think about your largest [Corn] field you planted in 2023 with manure applied for the 2023 growing season, including the fall of 2022]. I will ask you questions about that specific field. All questions should be in relation to that specific field.(1) Continue : Press Enter to continueM5 How many acres are in the field? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_M3 What was the crop planted on this field in 2022?(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 2022 before the 2023 [Corn] crop you previously mentioned? (1) YES(3) NOWhat was the yield goal when planting this field in 2023? \_\_\_\_\_\_\_\_\_\_ bushels per acre. M6 What was the average yield of this field over that last 3 [Wheat] crops? (or estimate if unknown) \_\_\_\_\_\_\_\_\_\_\_\_M7 Did the whole [Corn] field receive manure? (1) YES(3) NOM8 What is the **main** source of manure used on the field?(1) Dairy(2) Beef(3) Hog(4) Poultry(5) Other (goat, sheep, equine, etc)(99) Don't KnowM9 Was the manure applied solid or liquid? Enumertator 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 wat the date manure application began? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_M13 Did you use a nitrogen inhibitor or nitrogen stabilizer on this field?(1) YES(3) NOM14 What is the total amount of 1st year available Nitrogen applied from the manure as units? (Actual pounds of nitrogen per acre). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ M15. Did you use a nitrogen inhibitor or stabilizer to your field? (1) YES(3) NOM20 Was this manure from your own farm operation? (1) YES(3) NOM21 When was the last time the manure was tested for nutrient content?(1) This year (include 2022 applications for the 2023 crop year)(2) Last 3 years(3) Over 3 years ago(4) Don't TestM18 Did you also apply commercial fertilizers to this field for the 2023 crop year? (1) YES(3) NOM19 What were the total units of Nitrogen applied per acre to this field from commercial fertilizers for 2023 crop year, including all sources? Don’t’ forget the starter may include Nitrogen as well as phosphorus or sulfur sources. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Section 8 – *[[Wheat]]* Fertilizer Management**I will now ask you about your fertilizer and irrigation for your [*Wheat*] acres.Did all your [Wheat] fields receive manure for the 2023 crop year?1. Yes, all my [Wheat] fields received manure. Go to Section 9.
2. No, I have at least 1 [Wheat] field with no manure applied.

First on a *[Wheat]* field with no manure or compost applied in the fall of *2022* and no manure or compost applied anytime during the *2023* crop year.**A0.** How many irrigated [*Wheat*] acres did you have in 2023? \_\_\_\_\_\_\_\_\_\_\_ acres**A1.** Do you have a *[Wheat]* field without manure applied in the fall of *2022* or anytime in *2023* before or during the crop year? Yes\_\_\_\_ [continue] No\_\_\_\_ [Skip to Section 9]Think about your largest *[Wheat]* field that you planted in *2023* 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 were in this field in *2023*? \_\_\_\_\_**A2.** Was this field irrigated? Yes No**A3.** What was the crop grown on this field in *2022* before the 2023 *[Wheat]* crop? (Not including cover crop)1 Soybeans2 corn3 alfalfa (any alfalfa mix)4 small grains (oat, wheat, rye, barley)99 other**A4. 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Yes NoIf 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 Ammonia11 Urea (urea and coated urea such as ESN or Super U)12 Liquid N (such as 28% or 32%)13 Other99 Unknown**A10.** Did you use a nitrogen inhibitor or stabilizer on this field? Yes No DKI will now ask you for all your commercial fertilizer applications made this this field for the *2023* crop year, again including any 2022 fall applications of commercial fertilizer. Each individual application will be recorded separately, preferably as units per acre.This will include all fall applications in *2022* and all *2023* applications including pre-plant applications, starter/planter applications and post plant applications. ***[Wheat]* Field** [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 for this follow up information? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Who should we contact at that company? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Section 9: [Wheat] Manure Management****[Wheat] Field with manure applied.**M1 Now I will ask about a [Wheat] field that was applied with manure for the 2023 growing season.(1) Press Enter to continueM2 How many manured [*Wheat*] acres did you have in 2023?  \_\_\_\_\_\_\_\_\_\_\_\_\_ acres[If 0, Skip to Section 8]Think about your largest [Wheat] field you planted in 2023 with manure applied for the 2023 growing season, including the fall of 2022. I will ask you questions about that specific field. All questions should be in relation to that specific field.(1) Continue : Press Enter to continueM5 How many acres are in the field? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_M3 What was the crop planted on this field in 2022?(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 2022 before the 2023 Wheat crop you previously mentioned? (1) YES(3) NOWhat was the yield goal when planting this field in 2023? \_\_\_\_\_\_\_\_\_\_ bushels per acre. M6 What was the average yield of this field over that last 3 [Wheat] crops? (estimate if unknown)\_\_\_\_\_\_\_\_\_\_\_\_\_\_M7 Did the whole [Wheat] field receive manure? (1) YES(3) NOM8 What is the **main** source of manure used on the field?(1) Dairy(2) Beef(3) Hog(4) Poultry(5) Other (goat, sheep, equine, etc.)(99) Don't KnowM9 Was the manure applied solid or liquid? 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(1) YES(3) NOM21 When was the last time you manure was tested for nutrient content?(1) This year (include 2022 applications for the 2023 crop year)(2) Last 3 years(3) Over 3 years ago(4) Don't TestM18 Did you also apply commercial fertilizers to this field for the 2023 crop year? (1) YES(3) NOM19 What were the total units of Nitrogen applied per acre to this field from commercial fertilizers for 2023 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

Did you tissue test on Corn or Wheats? Yes NoHow many of your Corn or Wheat acres were planted with a cover crop? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **espondent 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-Comp2-R3-Inac4-Office Hold5-R – Est6-Inac – Est7-Off Hold – Est | 9901 | 1-Op/Mgr2-Sp3-Acct/Bkpr4-Partner9-Oth | 9902 | 1-Mail2-Tel3-Face-to-Face4-CATI5-Web6-e-mail7-Fax8-CAPI19-Other | 9903 | 9998 | 9900 | 9985 | 9989\_\_ \_\_ \_\_ - \_\_ \_\_ \_\_ - \_\_ \_\_ \_\_ |
| **Optional Use** |
| 9907 | 9908 | 9906 | 9916 |
| S/E Name |  |  |  |  |

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**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> |
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