#### **BEST MANAGEMENT PRACTICES SURVEY - 2020**

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United States Department of Agriculture



NATIONAL AGRICULTURAL STATISTICS SERVICE

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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 response 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: <a href="https://www.nass.usda.gov/confidentiality">https://www.nass.usda.gov/confidentiality</a>. 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 control number is 0535-0002. The time required to complete this information collection is estimated to average 15 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. 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.

#### SECTION 1 CROP ACRES

Please report the total ACRES WITH CORN AND SOYBEANS you operated in 2020. Also, provide a breakdown of acres with and without irrigation. Acres under irrigation refers to acres where water was applied with an irrigation system for the purpose of producing the corn crop. Please provide the previous crop before being planted to corn. If you do not know an answer, please leave a question mark in the box next to the question.

1. Of all land operated in 2020, how many acres were:

		530
a.	Acres planted to corn?	
h	Of the caree in 1a. Care caree not under invigation?	531
b.	Of the acres in 1a, Corn acres not under irrigation?	532
C.	Of the acres in 1a, Corn acres under irrigation?	
d.	Of the acres in 1a, Corn acres planted following corn?	533
u.	of the doles in Ed, com doles planted following com:	534
e.	Of the acres in 1a, Corn acres planted following soybeans?	
		535
f.	Of the acres in 1a, Corn acres following alfalfa?	500
g.	Of the acres in 1a, Corn acres planted with treated seed?	536
h.	Of the acres in 1a, Corn acres planted with seed treated with an	537
	insecticide?	
		600
i.	Acres planted to soybeans?	
i	Of the series in 1i. Southean series planted with treated seed?	601
J. k.	Of the acres in 1i, Soybean acres planted with treated seed?  Of the acres in 1i, Soybean acres planted with seed treated with an	602
κ.	insecticide?	
SECTIO	N 2 RECORD KEEPING FOR FERTILIZER APPLICATIONS	
1.	Did your operation plant any corn acres in 2020?	
	Yes – continue to question 2 below No – Go to Section	3

Please consider how you kept track of nitrogen fertilizer input for corn in 2020, such as rate, timing, placement, source and crediting of other nitrogen sources (e.g. manure, legumes etc.)

2. For total CORN ACRES you operated in 2020 (item 1a):

2020 CORN ACRES

**2020 ACRES** 

a. On how many acres were fertilizer inputs tracked by me using farm

540

management software, spreadsheets or similar?....

	On how many acres were fertilizer inputs tracked by me records?	541		
C.		542		
SECTIO	ON 3 NITROGEN MANAGEMENT			
1.	Did your operation plant any corn acres in 2020?			
	Yes – continue to question 2 below	No – Go to Section	4	
	consider your nitrogen application preparations for the 202 ota's Maximum Return To Nitrogen approach for estimatin			niversity of
2.	For total CORN ACRES you operated in 2020 (Item 1a):			
		2020 CORN ACRES NON-IRRIGATED	2020 CORN ACRES IRRIGATED	
a.	On how many acres did you use the University of Minnesota's MRTN approach to determine N rates?	543	544	
b.		545	546	
C.		547	548	
3.	For total CORN ACRES you operated in 2020 (Item 1a), pelow. (INCLUDE fertilizer applications in the preceding fall and winter manure applications).			-
		2020 CORN	2020 CORN	
		ACRES	ACRES	
		<b>NON-IRRIGATED</b>	IRRIGATED	
a.	3 11 1 3	NON-IRRIGATED 550	IRRIGATED 551	
	(no fall application)?Fall/winter applied nitrogen fertilizer was more than			
	(no fall application)?Fall/winter applied nitrogen fertilizer was more than 75% of total nitrogen fertilizer?	550	551	
b.	(no fall application)?	550 552	551 553	
b. c.	(no fall application)?	550 552 554	551 553 555	
b. c. d. e.	(no fall application)?	550 552 554 556	551 553 555 557	
b. c. d. e.  SECTION  For this Nitrogen	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559	e Maximum Return
b. c. d. e.  SECTION For this Nitrogen	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559 a recommends the	e Maximum Return
b. c. d. e.  SECTION For this Nitrogen 1.	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559 a recommends the es) 560 561	e Maximum Return
b. c. d. e.  SECTION For this Nitrogen 1.	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559 a recommends the es) 560 561	e Maximum Return
b. c. d. e.  SECTION  For this Nitrogen 1. a. b	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559  a recommends the es) 560 561 562	e Maximum Return
b. c. d. e.  SECTION  For this Nitrogen 1. a b c	(no fall application)?	550 552 554 556 558  iversity of Minnesota atio (check two boxes)	551 553 555 557 559 560 561 562 563	e Maximum Return
b. c. d. e.  SECTION For this Nitrogen 1. a b c d	(no fall application)?	550 552 554 556 558 iversity of Minnesota	551 553 555 557 559 560 561 562 563 564	e Maximum Return
b. c. d. e.  SECTION For this Nitrogen 1. a b c d e	(no fall application)?	550 552 554 556 558 iversity of Minnesota atio (check two boxes	551 553 555 557 559 560 561 562 563 564 565	e Maximum Return

		3		
SECTIO 4.		THER TECHNIQUES eration use other practices to reduce nitrogen losses from	ı your	fields?
Yes	<ul><li>continue to</li></ul>	question 2 below		
	What are the t and specify th	op three practices are you using to reduce nitrogen losse e acres	s fror	n your fields? Please list/explain below
a.	Specify:	701	_ 	Acres where practices are used 702
b.	Specify:	703	_ 	704
C.	Specify:	705	- 	706

## SECTION 6

### **PESTICIDE QUESTIONS**

Who plays a role in the following decisions? (please **check** all that apply, and **circle** the **check** that makes the **primary** decision)

Decision	Myself	Relative/ friend/ neighbor	Employee	Dealer/seed or chemical company rep	Commercial applicator	Independent crop consultant/ agronomist	Other	I don't know	Does not occur
Which herbicide(s) is used	801	802	803	804	805	806	807	808	809
Which insecticide(s) is used	810	811	812	813	814	815	816	817	818
Which fungicide(s) is used	819	820	821	822	823	824	825	826	827
Which seed treatments are used	828	829	830	831	832	833	834	835	836

Who do you get information from about the following? (please **check** all that apply and **circle** the **check** that makes **primary** influence).

Efficacy in this question refers to the level of control that an herbicide has on weeds, insecticide has on insects, and fungicide

has on pathogens.

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	Extension	Relative/friend/ neighbor	Dealer/seed or chemical company rep	People on social media or blogs	Independent crop consultant/ agronomist	MN Department of Agriculture	Other	I don't know	I don't get this information
Integrated pest management	850	851	852	853	854	855	856	857	858
Insecticide efficacy	859	860	861	862	863	864	865	866	867
Herbicide efficacy	868	869	870	871	872	873	874	875	876
Fungicide efficacy	877	878	879	880	881	882	883	884	885
Insecticide application timing	886	887	888	889	890	891	892	893	894
Herbicide application timing	895	896	897	898	899	900	901	902	903
Fungicide application timing	904	905	906	907	908	909	910	911	912

The survey results will be available on the internet at https://www.mda.state.mn.us/ in summer, 2022.

# This completes the survey. Thank you for your help!

Response		Respondent		Mode		Enum.	Eval.	Change
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 <b>R. Unit</b> 9921	9985

Office Use for POID									
9989									
Optional Use									
9907	9908	9906	9916						