MINNESOTA BEST MANAGEMENT PRACTICES - 2023

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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.

Response is voluntary. 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: https://www.nass.usda.gov/confidentiality. 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-NEW. 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 Department of Agriculture at (651) 261-1993.

CROP ACRES

SECTION 1

Please report the total ACRES WITH CORN AND SOYBEANS you operated in 2023. 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.

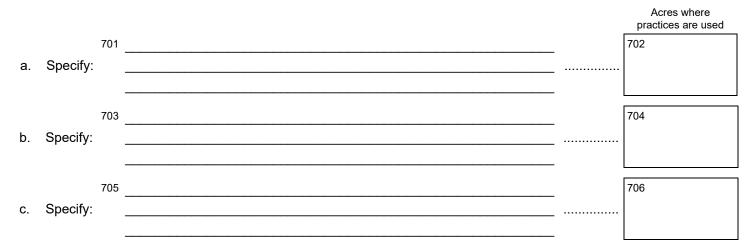
1.	Of	all land operated in 2023, how many acres were:	2023 ACRES
	a.	Acres planted to corn?	530
	b.	Of the acres in 1a, Corn acres not under irrigation?	531
	c.	Of the acres in 1a, Corn acres under irrigation?	532
	d.	Of the acres in 1a, Corn acres planted following corn?	533
	e.	Of the acres in 1a, Corn acres planted following soybeans	534
	f.	Of the acres in 1a, Corn acres planted following alfalfa?	535
	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 insecticide?	537
	i.	Acres planted to soybeans?	600
	j.	Of the acres in 1i, Soybean acres planted with treated seed?	601
	k.	Of the acres in 1i, Soybean acres planted with seed treated with an insecticide?	602

SE	CTI	ON 2 RECORD KEEPING FOR FERTILIZER APPLICATIONS										
1.	Dic	your operation plant any corn acres in 2023?										
	Ye	es - Continue to question 2 below No - Go to Section 3										
		e consider how you kept track of nitrogen fertilizer input for corn in 2023, such as rate ng of other nitrogen sources (e.g. manure, legumes etc.)	, timing, placeme	ent, source and								
2.	2. For total CORN ACRES you operated in 2023 (Item 1a):											
	a.	On how many acres were fertilizer inputs tracked by me using farm management so spreadsheets or similar?	revero,	540								
	b.	On how many acres were fertilizer inputs tracked by me using paper records?		541								
	C.	On how many acres were fertilizer inputs tracked for me by others (e.g. fertilizer dea consultant)?		542								
SE	CTI	ON 3 NITROGEN MANAGEMENT										
1.	Dic	l your operation plant any corn acres in 2023?										
	ease	s - Continue to question 2 below No - Go to Section 4 consider your nitrogen application preparations for the 2023 crop season. MRTN ref sota's Maximum Return To Nitrogen approach for estimating nitrogen rate on corn.	ers to the Univer	sity of								
			2023 CORN	2023 CORN								
2.	Fo	r total CORN ACRES you operated in 2023 (Item 1a):	ACRES NON-IRRIGATED	ACRES IRRIGATED								
		On how many acres did you use the University of Minnesota's MRTN approach to determine N rates?	543	544								
	b.	On how many acres did you use other industry-recommended techniques (e.g. fertilizer dealer, crop consultant, crop management software) to determine N rates?	545	546								
	C.	On how many acres did you use an in-season soil test, plant test or crop sensors to guide nitrogen fertilizer rates?	547	548								
3.	bel	r total CORN ACRES you operated in 2023 (Item 1a), please record the acres fertilize ow. (INCLUDE fertilizer applications in the preceding fall and winter, as well as preplant, at-pla CLUDE manure applications).										
	_	All wither some fortilizer was complied in anying on in account (no fall complication)?	550	551								
	a.	All nitrogen fertilizer was applied in spring or in-season (no fall application)?	552	553								
	b.	Fall/winter applied nitrogen fertilizer was more than 75% of total nitrogen fertilizer?.										
	C.	More than 50% of nitrogen fertilizer was applied in-season (INCLUDE fertigation)?.	554	555								
	d.	Fall/winter nitrogen fertilizer was applied with a nitrification inhibitor?	556	557								
	e.	Spring nitrogen fertilizer was applied with a nitrification inhibitor?	558	559								
Fo	r this	ON 4 GENERAL KNOWLEDGE s question, please check the boxes as appropriate. The University of Minnesota record en (MRTN) approach for nitrogen rate on corn.	mmends the Max	kimum Return to								
1.	Wh	ich of the following factors are included in the MRTN ratio? (check two boxes)										
	a.	Soil organic matter										
	b.	Price of nitrogen	561									
	C.	Yield goal	562									
	d.	Previous crop										
	e.	Variable rate	564									
	f	Price of corn	565 🗖									

f.	Price of corn	
g.	Cation exchange capacity (CEC)	

SECTION 5 OTHER TECHNIQUES

- 1. Does your operation use other practices to reduce nitrogen losses from your fields?
 - Yes Continue to question 2 below No Go to Section 6
- 2. What are the top three practices are you using to reduce nitrogen losses from your fields? Please list/explain below and specify the acres.



SECTION 6

PESTICIDE

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	l don't know	Does not occur
Which herbicide(s) is used?	801	802	803	804	805	806	807	808	809
Which insecticides(s) is used?	810	811	812	813	814	815	816	817	818
Which fungicides(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 the **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.

		Relative/ friend/	Dealer/ seed or chemical	social media or	consultant/	Department of		l don't	
	Extension	neighbor	company rep	blogs	agronomist	Agriculture	Other	know	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 http://www.mda.state.mn.us/ in summer, 2024.

This completes the survey. Thank you for your help!

	9911	9910	MM	DD	YY
Respondent Name:	Phone: ()	Date:			

Response		Respondent		Mode		Enum.	Eval.	Change	Office Use for POID)
1-Comp 2-R 3-Inac 4-Office Hold 5-R Est 6-InacEst 7-Off HoldEst	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth	9902	1-PASI (Mail) 2-PATI (Tel) 3-PAPI (Face- to-Face) 6-Email 7-Fax 19-Other	9903		9900 R. Unit 9921	9985	9989 9907	 Opti 9908	onal Use	9916
S/E Name:										•		