Non-substantive Change Request

0535-0273 - Cooperator Funded Chemical Use Surveys

MINNESOTA BEST MANAGEMENT PRACTICES SURVEY - 2023

The Minnesota Best Management Practices Survey, scheduled for August-September, 2023 was postponed per a request by the client, the Minnesota Department of Agriculture (MDA). MDA staff are responsible for the content of the survey instrument and prior to the start of the data collection for this survey, a review of data from another project they conduct suggested that the question wording for this project needed to be clarified to avoid misreporting problems that could reduce the value of the data.

With that new and last minute information, the MDA staff asked us to postpone the data collection and they went back through the questionnaire to clarify the wording of questions, removed a few particularly troublesome questions and replaced those with more direct and understandable questions to collect the data they need.

The purpose, desired goals, and content theme of the Minnesota Best Management Practices Survey have not changed from the original OMB review request. However, a number of the questions have been re-worded, clarified or replaced with others to improve the expected quality of the reported data.

New Questions:

(New Questions Added)
20. Do you have surface water, such as a river, stream (intermittent or continuous), lake, or pond, in the field or within 50 feet of the outside border of any of your corn or soybean fields?
346 Yes [Go to next question] 347 No [Go to question 23]
21. Do you have non-crop vegetative buffers, such as grass or other permanent vegetation, next to the surface water?
348 ☐ Yes – All [Go to next question] 349 ☐ Yes – Some [Go to next question] 350 ☐ No [Go to question 23]
22. How many feet is the average width of the non-crop vegetative buffer next to the surface water? 351ft
23. Do you have a well or sinkhole in the field or within 50 feet outside the border of any of your corn or soybean fields?
Yes - All [Go to next question] Yes - Some [Go to next question] No [Go to question 26]
24. Do you maintain a setback (no herbicide application) or non-crop vegetative buffer for the areas around the well or sinkhole?
355 ☐ Yes – All [Go to next question] 356 ☐ Yes – Some [Go to next question] 357 ☐ No [Go to question 28]
25. How many feet is the average width of the setback or non-crop vegetative buffer to the well or sinkhole?
26. Do you mix or load herbicides in any of your corn or soybean fields?
355 ☐ Yes
360 □ NO
₃₆₁ □ Don't Know

Revised wording in existing Questions:

crop produ advanced	icers th standa	nat collect infor	mation on pe al analyses	esticide and fe conducted by	ertilizer use. Minnesota E	Survey re Departme	espondents ent of Agricu	s are rando <mark>ulture</mark> . You	omly selected ir response is	, and the necessa	reported res	surveys of majo sults are based o rovide the best	or
1. How	/ man	y acres of co	orn and so	oybeans did	d you plan	it in 202	22 on you	ır operat	tion?			Acres	
		Corn: Soybeans:										102	
2. 201	Did yo	u have any	acres of c	orn in 2022	that were	e plante	ed to soy	beans ir	2021?				
	ı 🗆 v	⁄es	з [□ No (<mark>Go t</mark> e	o question	<mark>1 4</mark>)							
<mark>plan</mark> MAI	<mark>ted ir</mark> P/DAF	<mark>1 2022</mark> , that	were plai ir sources	nted to soy such as thi	beans in 2 iosulfate a	2021? Pl and amr	lease incl monium :	lude any sulfate,	nitrogen f and nitrog	rom ph	osphorus	all acres of c sources such in addition to	h as
Total un	its (a	ctual nitroge	en) applie	d per acre	(average p	oer acre	2)					202	
	Did yo ₁□ Y	ou have any 'es		orn in 2022 □ No <mark>(Go t</mark>			ed to con	n in 202	1?				
across al include a as thiosu source o	l acre iny ni ilfate f nitr	acres. Wha es of corn pl itrogen fror and ammo ogen such a	l <mark>anted in</mark> n phosph nium sulf as UAN so	2022, that lorus sourc fate, and ni plutions, ur	were <mark>also</mark> es such as itrogen in	plante s MAP/ the sta	ed to <mark>cor</mark> /DAP/ME ater in ac	<mark>n</mark> in 202 Z, sulfu	1? Please r sources s	such	(actua	otal units al nitrogen) ed per acre age per acre))
a. 205 C b. 206 C c. 207 C d. 208 C e. 209 C f. 210 C g. 211 C h. 212 C	Aut Pre Var Pre Niti Niti Niti	cision plant iable rate for cision spray rogen applio rogen applio rogen applio acres of co	cing ertilizer al ying, such cations ba cations ba cations ba ver crops	pplications n as auto bo ased on zoo ased on ae ased on in ased on otl	oom shutc ne <u>manag</u> rial <u>image</u> field varia her in sea:	off ement ery ables su son var	uch as in : riables no	season :	soil <u>tests</u> ioned <u>abo</u>	<u>ve</u>	ly).	Acres	
	vest	ed in 2022? er crop on	-			_						Acres 214	
b.		er crop on :										215	

If you did not grow corn in 2022, go to question 16

8.	216 With the higher price	of fertilizer, did	you reduce your N rate on	your corn acres?	
	1 🗆 Yes	₃ □ №	₅ ☐ Don't Know		
9.	217 Was manure used or	n any of your corn	acres in 2022?		
	1 🗆 Yes	3 🗆 No			
	218 If yes, was the m	anure tested with	<mark>iin the last five years</mark> befo	re application in 2022?	
	ı ☐ Yes	₃ ☐ No			
10.	Which of the following for guidelines. — list factors?		the nitrogen rate calculati	ion in the <mark>University of Mir</mark>	<mark>nnesota</mark> nitrogen
а	. 219 Soil organic ma	atter			
b	· ₂₂₂0 ☐ Price of nitrog	en			
С	Yield goal				
d	· 222 Previous crop				
е	ZZ3 C Variable rate				
f.	224 Price of corn				
g	· 225 Cation exchan	ge capacity (CEC)			
f.	226 Don't know				
11.	The Minnesota Department shows areas where fall niti			water area map on its websit	te that
			Inerable groundwater area o		Acres 234
			s defined by the MDA vulner		234
	b. 227 When was the last to 1	-	the MDA's Fall Nitrogen Ferti	ilizer Restrictions map on the	MDA website?
12	. ₂₂₈ Do you use a nitrogen	nhibitor on <mark>any of</mark>	<mark>your</mark> corn acres?		
	₁ ☐ Yes				
	₃ □ No				
	₅ ☐ Don't Know				
13	. 229 Do you sidedress any r	itrogen on your co	n acres, <mark>including top dress o</mark>	<mark>r irrigation</mark> ?	
	1 🗆 Yes				
	3 No				
	₅ ☐ Don't Know				

Herbic	ide Best Management Practices (BMP) Adoption Survey 2022		
	your 2022 corn and/or soybean acres, did you (choose one from the list for each	crop) If on	ly one crop, check
on	ly in that column.	Corn	Soybeans
a.	Apply herbicides yourself		
b.	Have herbicides custom applied?	301	302
c.	Apply some myself and some custom applied	303 🔲	304
d.		305	308
	CONCLUDE interview if you did not use any herbicides on corn or soybeans in 20		308
	If no corn acres, go to question 20		
19. On	your corn acres applied with herbicides, did you use more than one mode of action	(group). Th	is could be from
	o or more products with different modes of <u>action</u> or a premix with two or more di		
	342 All corn acres		
	343 Some corn acres		
	344 None of my corn acres		
	144 La None of my com acres		
	345 Don't Know		
trazi	ine Use in Corn		
27	Was attazing applied on any of your corp agree in 2022, promises i	ومماييمة	
27.40	¹¹ Was atrazine applied on any of your corn acres in 2022, premixes in	inciuaea:	
	1 ☐ Yes - Go to question 29.		
	₃ ☐ No - Go to question 33.		
	₅ Don't Know – Go to next question.		
	7 ☐ No corn acres in 2022 — Go to		
	question 38.		

If you have selected one or more of these atrazine products, then go to then next question. If not, skip to question 33.
29. 412 When did you apply atrazine on the majority of your corn acres? [Only check one]
₁ ☐ Crop preplant or preemergence
₂ Crop post emergence - Go to question to <u>31</u>
$_3$ \square Split application (both pre and post on the same field)
30. 413 Was atrazine incorporated though tillage?
₁ ☐ All corn acres
₃ □ Some corn acres
4 None
₅ Don't Know
32. Which of the following factors were considered when choosing the rate of atrazine on your corn fields in 2022 besides cost? (Select all that apply)
k. ₄₁₅ 🗖 Soil Texture
I. 416 Soil Organic Matter
m. <mark>417</mark> 🗖 Weed Species
n. 418
o. ₄₁₉ 🔲 Effectiveness
p. ₄₂₀ 🗖 <mark>Other</mark>
q. ₄₂₁ Don't Know

Deletion of Questions:

18. Were any of the following precision application technologies used to apply herbicides on your corn and/or soybean acres in									
2022?	2022? Check all that apply								
		Corn	Soybeans						
a.	Auto steer								
b.	. Auto boom shut off								
C.	Variable rate application								
19. Were	19. Were any of these practices used to minimize herbicide spray drift on corn and/or soybean acres in 2022? Check all that apply								
		Corn	Soybeans						
a.	Low-drift spray nozzles								
b.	. Spray boom height adjustment								
c.	Hooded or shielded sprayer								
20. How many acres of cover crops were planted in or grown after your corn or soybean fields were harvested in 2022? Yes/No									
If yes,									
a.	Corn:acres								
b.	Soybeans:acres								

The questionnaire has been loaded to ROCIS.

This change will not impact the requested annual sample size and respondent burden.