

AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218
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SurveyID: 9087 Phase 2



USDA/NASS
National Operations Division
9700 Page Avenue, Suite 400
St. Louis, MO 63132-1547
Phone: 1-888-424-7828
FAX: 1-855-415-3687
Email: nass@usda.gov

BARLEY PRODUCTION PRACTICES REPORT FOR 2023

VERSION 14	ID _____	TRACT 01	SUBTRACT ____	C-TYPE 103
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CONTACT RECORD

DATE	TIME	NOTES

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>. 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.

BEGINNING TIME

H	H	M	M
00	04		

[MILITARY] _____

SCREENING BOX

0006

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

☐ Check if verified	POID _____
Name: _____	
Address: _____	
City: _____	State: _____ Zip: _____
Phone: (____) _____	☐ check if cell phone

Total Planted Acres

1. How many total acres of barley did this operation plant for the 2023 crop year?.....

0050

[If no acres were planted, review Screening Survey Information Form, make notes, then go to back page.]

I will follow a simple procedure to make a random selection from the barley fields planted for the 2023 crop.

Total Number Of
Fields Planted

2. What is the total number of barley fields that were planted on this operation? [If only one field, enter "1" and go to item 4.].....

0020

3. [Now, I need to identify a barley field to be used for this survey.] The barley field pre-selected for this interview is the:

1 ☐ Northern most field

2 ☐ Southern most field

3 ☐ Eastern most field

4 ☐ Western most field

5 ☐ Northeastern most field

6 ☐ Southeastern most field

7 ☐ Northwestern most field

8 ☐ Southwestern most field

Field description:

4. The field selected is _____ (field name/number/description).

During this interview, the barley questions will be about this selected barley field.

[Be sure the operator can identify the selected field.]

Acres

5. How many acres of barley were planted in this field for the 2023 crop?.....

1301

Office Use
OY Field Substituted

0022

1. Were commercial nutrients or fertilizers applied to the selected field for the 2023 barley crop? INCLUDE those from operators, landlords, and contractors.....

Yes=1
No=3

Code

Office Use
Edit Table

0202

0200

[If commercial nutrient or fertilizer applied, continue, else go to Section D.]

Number

2. How many commercial nutrient or fertilizer applications were made to the selected field for the 2023 crop? INCLUDE applications made by airplanes and custom applicators.....

0203

3. [Now I need to record information for each application.]

CHECKLIST

INCLUDE

- ☐ Custom applied nutrients or fertilizers
- ☐ Nutrients or fertilizers applied in the fall of 2022 and those applied earlier if the selected field was fallow in 2022.
- ☐ Commercially prepared manure or compost

EXCLUDE

- ☐ Micronutrients
- ☐ Unprocessed manure
- ☐ Nutrients or fertilizers applied to previous crops in the selected field
- ☐ Lime and gypsum/land plaster

Office Use
Lines in TableTable
001

0299

Nitrogen Codes for Column 2 Source/Form of N Used

- 1 Anhydrous ammonia 6 Ammonia sulfate
2 Nitrogen solution (UAN) 7 Potassium nitrate, magnesium nitrate, and calcium nitrate
3 Urea
4 Ammonium nitrate 8 Other nitrogen fertilizer material [specify: _____]
5 Sodium nitrate

Application Codes for Column 6

- 1 Broadcast, ground without incorporation 5 In irrigation water
2 Broadcast, ground with incorporation 6 Chisel/injected or knifed in
3 Broadcast, by aircraft 7 Banded in or over row
4 In seed furrow 8 Foliar or directed spray

LINE	2 Materials Used [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Nutrients or Fertilizers in Respondent Booklet] [Refer to nitrogen code list above for type of nitrogen used.]					3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported]	4 [Enter material code] 1 Pounds 12 Gallons 13 Quarts 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above]	7 How many acres in the selected field were treated in this application? Acres
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	S Sulfur	Source/Form of N Used [Refer to code list above]					
01	31	32	33	34	35	36	37	38	39	40
02	31	32	33	34	35	36	37	38	39	40
03	31	32	33	34	35	36	37	38	39	40
04	31	32	33	34	35	36	37	38	39	40
05	31	32	33	34	35	36	37	38	39	40
06	31	32	33	34	35	36	37	38	39	40
07	31	32	33	34	35	36	37	38	39	40
08	31	32	33	34	35	36	37	38	39	40
09	31	32	33	34	35	36	37	38	39	40
10	31	32	33	34	35	36	37	38	39	40

D

BIOCONTROL or PESTICIDE APPLICATIONS – SELECTED FIELD

D

Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2023 barley crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this barley field for the 2023 crop?.....

Yes=1
No=3

Code

Office Use
Edit Table

0302	0300
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[Probe for applications made in the fall of 2022 and those made earlier if the selected field was fallow.]

If no biocontrols or pesticides applied, go to Section E.

INCLUDE defoliant, fungicides, herbicides, insecticides, and other pesticides

EXCLUDE adjuvants, nutrients or fertilizers reported earlier and seed treatments.

Office Use
Line in Table

Table
001

0399

Chemical Product Name	L I N E	2	3	4	5	6	OR	7	8
		What products were applied to the selected field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	If this was part of a tank mix, enter line number of first product in mix.	When was this applied? 1 Before planting 3 At planting 4 After planting 5 Defoliation prior to harvest	How much was applied per acre per application?		What was the total amount applied per application in the selected field?	[Enter unit code] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	61	62	63	64	65	_____	73	74
	02	61	62	63	64	65	_____	73	74
	03	61	62	63	64	65	_____	73	74
	04	61	62	63	64	65	_____	73	74
	05	61	62	63	64	65	_____	73	74
	06	61	62	63	64	65	_____	73	74
	07	61	62	63	64	65	_____	73	74
	08	61	62	63	64	65	_____	73	74
	09	61	62	63	64	65	_____	73	74
	10	61	62	63	64	65	_____	73	74
	11	61	62	63	64	65	_____	73	74
	12	61	62	63	64	65	_____	73	74
	13	61	62	63	64	65	_____	73	74
	14	61	62	63	64	65	_____	73	74

2. For biocontrols or pesticides not listed in the Respondent Booklet, specify—

Line	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	EPA No. or Trade Name and Formulation	Form Purchased (Liquid or Dry)	Where Purchased (Ask only if EPA No. cannot be reported)

Applications Codes for Column 9

- | | |
|---|----------------------------------|
| 1 Broadcast, ground without incorporation | 6 Chiseled/injected or knifed in |
| 2 Broadcast, ground with incorporation | 7 Banded in or over row |
| 3 Broadcast, by aircraft | 8 Foliar or directed spray |
| 4 In seed furrow | 9 Spot treatments |
| 5 In irrigation water | |

L I N E	9 How was this product applied? [Enter code from above.]	10 How many acres in the selected field were treated with this product? Acres	11 How many times was it applied? Number	12 Were these applications made by-- 1 Operator, partner, or family member? 2 Custom applicator? 3 Employee/Other?
	01	76	77 .__	79
02	76	77 .__	79	80
03	76	77 .__	79	80
04	76	77 .__	79	80
05	76	77 .__	79	80
06	76	77 .__	79	80
07	76	77 .__	79	80
08	76	77 .__	79	80
09	76	77 .__	79	80
10	76	77 .__	79	80
11	76	77 .__	79	80
12	76	77 .__	79	80
13	76	77 .__	79	80
14	76	77 .__	79	80

Now I have some questions about your pest management decisions and practices used on the selected field for the 2023 barley crop. By pests, we mean weeds, insects, and diseases.

[Enumerator Action: Were pesticide applications reported in Section D?]

☐ Yes - Continue ☐ No - Go to item 6

- | | | |
|--|---------------|--------------|
| 1. Were weather data used to assist in determining either the need or when to make pesticide applications?..... | Yes=1
No=3 | Code
0800 |
| 2. Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in the selected field?..... | Yes=1
No=3 | Code
0801 |
| 3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?..... | Yes=1
No=3 | Code
0802 |

[Enumerator Action: Were herbicide (pesticide product codes 10000-99000) applications reported in Section D, item 1, column 2?]

☐ Yes - Continue ☐ No - Go to item 6

- | | | |
|---|---------------|--------------|
| 4. Were herbicides applied to the selected barley field before weeds emerged?..... | Yes=1
No=3 | Code
0803 |
| 5. Were herbicides applied to the selected barley field after weeds emerged?..... | Yes=1
No=3 | Code
0805 |
| 6. Were records kept for the selected field to track the activity or numbers of weeds, insects, or diseases?..... | Yes=1
No=3 | Code
0823 |
| 7. Did you use published information on infestation thresholds to determine when to take measures to manage pests in the selected field?..... | Yes=1
No=3 | Code
1824 |

8. In 2023, how was the selected field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?.....

- 1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]

2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 11.]

3 The selected field was not scouted. [Enter code 3 and go to item 13.]

Code

0808

9. Was an established scouting process such as systematic sampling, recording counts, etc. used or were insect traps used in the selected field?.....

Yes=1
No=3

Code
0809

10. Was scouting for pests done in the selected field due to —

a. a pest advisory warning?.....

Yes=1
No=3

Code
0810

b. a pest development model?.....

Yes=1
No=3

Code
0811

1	2	3	4
11. Was this barley field scouted for—		[If Yes, ask—] What was the infestation level for [column 1]? 1 Higher than normal 2 Normal 3 Lower than normal Code	[If column 2 = Yes, ask] Who did the majority of the scouting for [column 1]? 1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout Code
a. weeds?.....	Yes=1 No=3 0812	0813	0814
b. insects or mites?.....	0815	0816	0817
c. diseases?.....	0818	0819	0820

		Code
12. Did you use field mapping of previous weed problems to assist you in making weed management decisions?.....	Yes=1 No=3	0825
13. Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in the selected field?		Code
a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field?.....	Yes=1 No=3	0841
b. Plow down crop residue using conventional tillage?.....	Yes=1 No=3	0842
c. Remove/burn down crop residue?.....	Yes=1 No=3	0843
d. Rotate crops in the selected field during the past three years?.....	Yes=1 No=3	0844
e. Maintain ground covers, mulches, or other physical barriers?.....	Yes=1 No=3	0845
f. Choose crop variety because of specific resistance to a certain pest?.....	Yes=1 No=3	0846
g. Use no-till or minimum till?.....	Yes=1 No=3	0847
h. Plan planting locations to avoid cross infestation of pests?.....	Yes=1 No=3	0848
i. Adjust planting or harvesting dates?.....	Yes=1 No=3	0849
j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?.....	Yes=1 No=3	0850
k. Clean equipment and field implements after completing field work to reduce the spread of pests?.....	Yes=1 No=3	0851
l. Adjust row spacing, plant density, or row directions?.....	Yes=1 No=3	0852
m. Have the seed treated for insect or disease control after you purchased the seed for the selected field?.....	Yes=1 No=3	0854
n. Maintain a beneficial insect or vertebrate habitat?.....	Yes=1 No=3	0855
o. Maintain buffer strips or border rows to isolate barley from non-organic crops or land, or did you take a buffer harvest?.....	Yes=1 No=3	0856
p. Use a flamer to kill weeds?.....	Yes=1 No=3	0857
q. Plant earlier or later to avoid weeds?.....	Yes=1 No=3	0865
14. Were any beneficial organisms, such as insects, nematodes, or fungi, applied or released in the selected field to manage pests?.....	Yes=1 No=3	0853
15. Were floral lures, attractants, repellants, pheromone traps, or other biological pest controls used on the selected field?.....	Yes=1 No=3	0858
16. Was a trap crop, excluding fallow, grown to help manage insects in the selected field?.....	Yes=1 No=3	0863
17. Was the selected field left fallow in 2022 to help manage insects on the selected field?.....	Yes=1 No=3	0864
18. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on the selected field to manage pests or toxin-producing fungi and bacteria?.....	Yes=1 No=3	0861

Completion Code for Pest Management Data	
1 Incomplete/Refusal	0500

CONCLUSION

[Enumerator Note: Thank the respondent, then review this questionnaire.]

Office Use Only				
Ending Time (Military)		OR	Total Hours	
Hours	Minutes		Hours	Minutes
0005		0008		

1. Ending time.....

2. Records Use

[Did respondent use farm/ranch records to report—]

[fertilizer data]..... Code Yes=1 0011 No=3	[pesticide data]..... Code Yes=1 0012 No=3
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3. Supplements Used

[Record the total number of each type of supplement used to complete this interview.]

Fertilizer Supplement..... Number 0041	Pesticide Supplement..... Number 0042
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Contact Information

Operator Email:

Operator Phone:

9929	9917 Check to receive results by email ☐	9918 () _____	check if cell phone ☐
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Operation Email: (if different from above)

Operation Phone: (if different from above)

9937	9920 Check to receive results by email ☐	9936 () _____	check if cell phone ☐
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Respondent Name:

Respondent Phone (if different from above)

9912 _____	9911 () _____	check if cell phone ☐	9910 MM DD YY Date: _ _ _ _ _ _
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This completes the survey. The results will be available on the release date at nass.usda.gov/results
 Thank you for your help.

OFFICE USE									
R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	SSO 1	Optional Use		
9921	9922	9923	9927	9928	923	9907	9906	9908	9916
Response		Respondent		Mode		Enum.	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-Other	9902	1-PASI (Mail) 2-PATI (tel) 3-PAPI (Face-to-Face) 4-CATI 5-Web 6-E-mail 7-Fax 8-CAPI 19-Other	9903	9998	9989 _____		
						9900	922	9985	