

2024 VEGETABLE CHEMICAL USE SURVEY

OMB No. 0535-0218
Approval Expires: xx/xx/20xx
Project Code: 136
SurveyID: 2069



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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

CALIFORNIA ENTERPRISE

VERSION 01	POID ____	SUBTRACT ____
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CONTACT RECORD

DATE	TIME	NOTES

INTRODUCTION:

[Introduced yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on chemical use and pest management practices and need your help to make the information as accurate as possible. 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 control number is 0535-0218. The time required to complete this information collection is estimated to average 60 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.

We encourage you to refer to your farm records during the interview.

H H M M

004

BEGINNING TIME [MILITARY].....

☐ Name, address, and partners verified and updated if necessary.

During the screening phase of the Vegetable Chemical Use Survey conducted in June and July, your operation was found to be growing or intending to grow vegetables this year. I now need to verify some of the information collected during the screening survey.

Verify operation name and operator on label and/or screener.

- If no changes, go to page 3.
- If changed, continue to Change in Operating Status on next page.

CHANGE IN OPERATOR STATUS

[Enumerator Note: Skip this section if there is no change in operation name or operator.]

1. Has there been a change in operation name or operator?

023 ₁ ☐ Yes – Continue

₃ ☐ No – Go to Enumerator Note below.

Operation Name _____	
Operator Name _____	
Address _____	

Phone (_____) _____	☐ Check if cell phone

[Enumerator Note: If the operation on the face page was in business part of the 2024 crop year, complete this questionnaire for the part of the year during which the operation did business, unless the operation has been taken over by a new operator. If the operator has changed midyear, please conduct this interview start to finish with the new operator after reading "Valid Substitution" rules in section 4 of the Interviewer's Manual.]

2. Has the operation printed on this questionnaire been combined or merged with any other farming operations?

₁ ☐ Yes – Go to Conclusion

₃ ☐ No – Continue

SCREENING

1. Did this operation have any of the target crops during the 2024 crop year? [See page 6 for target crops.]

¹ ☐ Yes – Continue

³ ☐ No – Write notes explaining the situation, then Go to Conclusion.

2. Are the day-to-day decisions for this operation (name on label) made by — [Check one]

¹ ☐ one individual? [Go to California Screening, page 4]

⁸ ☐ a hired manager? [Go to California Screening, page 4]

² ☐ partners? [Continue]

3. How many individuals are involved in the day-to-day decisions of this operation? [Enter the number of partners, including the partner named on the label. Identify the other persons in this partnership below, then go to California Screening, page 4. Partners jointly operate land and share in decision making. Do not include landlords and tenants as partners.....]

Number

4. Please identify the other person(s) in this partnership, then go to California Screening, page 4. Verify partners' names and make necessary corrections if names have already been entered.

☐ Check if verified POID _____
 Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____

check if
cell phone

 Phone: (____) _____ ☐

☐ Check if verified POID _____
 Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____

check if
cell phone

 Phone: (____) _____ ☐

☐ Check if verified POID _____
 Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____

check if
cell phone

 Phone: (____) _____ ☐

☐ Check if verified POID _____
 Name: _____
 Address: _____
 City: _____ State: _____ Zip: _____

check if
cell phone

 Phone: (____) _____ ☐

CALIFORNIA SCREENING

5. What ID (pesticide permit number) does this operation use for reporting pesticide applications on the target crop acres to the County Agricultural Commissioners?

County

Number

--	--	--	--	--	--

a. Is this ID used to report pesticide applications for any other operations?

1 ☐ Yes – Continue 3 ☐ No – Go to item 6

b. What other operation(s) is this ID used to report for?

Name: _____	Name: _____
Address: _____	Address: _____
Phone: (_____) _____ ☐ Check if cell phone	Phone: (_____) _____ ☐ Check if cell phone

6. Does the operation use any other ID's to report pesticide applications on the target crops bearing acres to the County Agricultural Commissioners?

1 ☐ Yes – Continue 3 ☐ No – Go to Section A

County

Number

a. What are these other ID numbers?.....

b. Do you use any of these ID's to report pesticide applications for any other operation?

1 ☐ Yes – Continue 3 ☐ No – Go to Section A

i. What other operations use this ID for reporting? [Identify operation and ID.]

Name: _____	Name: _____
Reporting ID: _____	Reporting ID: _____
Address: _____	Address: _____
Phone: (_____) _____ ☐ Check if cell phone	Phone: (_____) _____ ☐ Check if cell phone

A**LAND OPERATED****A**

Acres Operated

[Enumerator Action: If acreage on the insert is verified as correct, enter code 1 in box 801, then skip to Section B. If acreage has changed, ask all questions.].....

801

Now I would like to ask about the total acres operated under this land arrangement.

1. How many acres does this operation —

Acres

a. own?.....

+

901

.____

b. rent or lease from others or use rent free? EXCLUDE land used on an animal unit month (AUM) basis.....

+

902

.____

c. rent to others?.....

-

905

.____

2. [Calculate item 1a + 1b - 1c.] Then the total acres operated are:

=

900

.____

a. Does this include the farmstead, all cropland, woodland, pastureland, wasteland, and government program land?

¹ ☐ Yes – Continue

³ ☐ No – Make corrections, then continue.

The remaining questions in this survey refer to these (item 2) acres.

3. Of the total acres operated, how many acres are considered cropland? INCLUDE land in hay, summer fallow, cropland idle, cropland used for pasture, and cropland in government programs.....

802

.____

4. Of the total acres operated, how many acres are vegetables? INCLUDE both target and non-target vegetables planted on the operation.....

803

.____

1. What target vegetable crops were on these [Section A, item 4] acres during the 2024 crop year? EXCLUDE new plantings of vegetables not intended for harvest in 2024.

Table 001	
Office Use Lines in Table	
Line 99	199

L I N E	1	2	3	4	5	6	7
	Crop	Crop Code	How many acres of [crop] did this operation have? Acres	Were any commercial fertilizers applied to this crop? Yes = 1 No = 3	Were any herbicides, insecticides, fungicides, etc. applied to this crop? Yes = 1 No = 3	On what date did you complete harvest of your 2023 crop year [crop]? MM DD YY	On what date did you complete harvest of your 2024 crop year [crop]? MM DD YY
01			11 ▪ ____	12	13	14	15
02			11 ▪ ____	12	13	14	15
03			11 ▪ ____	12	13	14	15
04			11 ▪ ____	12	13	14	15
05			11 ▪ ____	12	13	14	15
06			11 ▪ ____	12	13	14	15
07			11 ▪ ____	12	13	14	15
08			11 ▪ ____	12	13	14	15
09			11 ▪ ____	12	13	14	15
10			11 ▪ ____	12	13	14	15
11			11 ▪ ____	12	13	14	15
12			11 ▪ ____	12	13	14	15
13			11 ▪ ____	12	13	14	15
14			11 ▪ ____	12	13	14	15
15			11 ▪ ____	12	13	14	15

Crop Codes

701 Asparagus	714 Cauliflower	725 Lettuce, Head	742 Squash
613 Beans, Snap	715 Celery	728 Lettuce, Other	770 Tomatoes
705 Broccoli	766 Corn, Sweet	824 Onions	752 Watermelons
808 Cabbage	798 Cucumbers	736 Peppers, Bell	
709 Cantaloupes	723 Garlic	738 Pumpkins	
632 Carrots	730 Honeydew	759 Spinach	

L I N E	CAL - EPA SITE LOCATION NUMBER (if required)					
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						

INCLUDES and EXCLUDES

INCLUDE:

Target Crops only.

All acreage equal to or greater than one tenth of an acre.

All acreage for processing or fresh market.

All acreage for roadside stands, farmer's markets, or U-pick sales.

Acreage not harvested due to weather, economic, or other reasons.

Crops planted in the fall of 2023 if they were part of the 2024 crop.

Double cropping.

EXCLUDE:

All crops grown in another state.

All crops grown in greenhouses and hothouses.

Home garden vegetable acreage.

All mushrooms, potatoes, sweetpotatoes, dry beans.

All vegetable acres grown by institutional, experimental, research, and university farms.

Non-target vegetables.

Enumerator Note--

If column 4 of the table in Section B is Yes for any crops, continue with item 1.

If column 4 of the table in Section B is No for all crops, go to Section E, page 10.

1. I need to record complete information on all commercial fertilizers applied to the target vegetables grown during the 2024 crop year. **INCLUDE** all applications regardless of how they were applied such as irrigation water, foliar applications, etc. Record amount of an analysis of fertilizers applied or pounds of actual plant nutrients applied. Complete the table below and any necessary supplemental fertilizer tables. **EXCLUDE** micronutrients, lime, and gypsum.

Office Use Lines in Table	Table 001	299
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LINE	1	2	3	4	5	6	7	8	9	10
	Crop	Crop Code	N NITROGEN	P ₂ O ₅ PHOSPHATE	K ₂ O POTASH	S SULFUR	How much was applied per acre per application? [Leave this column blank if actual nutrients were reported.]	Unit Codes 1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	How many acres was this applied to? Acres	How many times was it applied? Number
01			31	32	33	34	36	37	40	41
02			31	32	33	34	36	37	40	41
03			31	32	33	34	36	37	40	41
04			31	32	33	34	36	37	40	41
05			31	32	33	34	36	37	40	41
06			31	32	33	34	36	37	40	41
07			31	32	33	34	36	37	40	41
08			31	32	33	34	36	37	40	41
09			31	32	33	34	36	37	40	41
10			31	32	33	34	36	37	40	41
11			31	32	33	34	36	37	40	41
12			31	32	33	34	36	37	40	41
13			31	32	33	34	36	37	40	41
14			31	32	33	34	36	37	40	41
15			31	32	33	34	36	37	40	41
16			31	32	33	34	36	37	40	41
17			31	32	33	34	36	37	40	41

FERTILIZER APPLICATIONS

L I N E	1 Crop	2 Crop Code	3 N I T R O G E N N	4 P H O S P H A T E P ₂ O ₅	5 P O T A S H K ₂ O	6 S U L F U R S	7 How much was applied per acre per application? [Leave this column blank if actual nutrients were reported.]	8 Unit Codes 1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	9 How many acres was this applied to? Acres	10 How many times was it applied? Number
18			31	32	33	34	36	37	40	41
19			31	32	33	34	36	37	40	41
20			31	32	33	34	36	37	40	41
21			31	32	33	34	36	37	40	41
22			31	32	33	34	36	37	40	41
23			31	32	33	34	36	37	40	41
24			31	32	33	34	36	37	40	41
25			31	32	33	34	36	37	40	41
26			31	32	33	34	36	37	40	41
27			31	32	33	34	36	37	40	41
28			31	32	33	34	36	37	40	41
29			31	32	33	34	36	37	40	41
30			31	32	33	34	36	37	40	41
31			31	32	33	34	36	37	40	41
32			31	32	33	34	36	37	40	41
33			31	32	33	34	36	37	40	41
34			31	32	33	34	36	37	40	41
35			31	32	33	34	36	37	40	41
36			31	32	33	34	36	37	40	41
37			31	32	33	34	36	37	40	41
38			31	32	33	34	36	37	40	41
39			31	32	33	34	36	37	40	41
40			31	32	33	34	36	37	40	41

COMPLETION CODE FOR
FERTILIZER APPLICATIONS1 Incomp/R
3 Valid Zero

200

E PEST MANAGEMENT PRACTICES

E

Now I have some questions about pest management practices you may have used on any of the total vegetable acres on this operation. INCLUDE both target and non-target vegetable crops grown. By pests, we mean insects, weeds, and diseases.

[Enumerator Action: Were pesticide applications reported in Section B, column 5 on page 6?]

¹ ☐ Yes – Continue

³ ☐ No – Go to item 4

1. Was weather data used to assist in determining either the need or when to make pesticide applications?.....

Yes=1
No=3

Code

600

2. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators, such as Courier, Intrepid, etc., neem or other natural/biological based products sprayed or applied to manage pests?.....

Yes=1
No=3

601

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

602

4. In 2024, how were your vegetable acres primarily scouted for insects, weeds, diseases, and/or beneficial organisms?.....

- 1 By deliberately going to the vegetable acres specifically for scouting activities. Enter code 1 and go to item 5.
- 2 By conducting general observations while performing routine tasks. Enter code 2 and go to item 7.
- 3 The vegetable acres were not scouted. Enter code 3 and go to item 10.

Code

608

5. Was an established scouting process used such as systemic sampling, recording counts, insect traps, etc., on any vegetable acres?.....

Yes=1
No=3

Code

609

6. Was scouting for pests done on these vegetable acres due to —

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

Yes=1
No=3

Code

610

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

Yes=1
No=3

611

1	2	3
7. Were your vegetable acres scouted for —	Yes = 1 No = 3	[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 5 Processor 6 Other: (specify: _____) Code
a. weeds?.....	612	614
b. insects or mites?.....	615	617
c. disease?.....	618	620

E PEST MANAGEMENT PRACTICES**E**

		Code
8. Were written or electronic records kept to track the activity or numbers of weeds, insects, or diseases?.....	Yes=1 No=3	623
9. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?.....	Yes=1 No=3	624
10. Was field mapping data used for making pest management decisions?.....	Yes=1 No=3	625
11. Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?.....	Yes=1 No=3	626
12. Were crop residues plowed down or removed to manage pests?.....	Yes=1 No=3	627
13. Were crops rotated during the past three years for the purpose of managing pests?.....	Yes=1 No=3	628
14. Were ground covers, mulches, or other physical barriers maintained to manage pest problems?...	Yes=1 No=3	629
15. Was a crop variety chosen because it had resistance to a specific pest?.....	Yes=1 No=3	630
16. Was no-till or minimum till used to manage pests?.....	Yes=1 No=3	631
17. Were planting locations planned to avoid infestation of pests?.....	Yes=1 No=3	632
18. Were planting or harvesting dates adjusted to manage pests?.....	Yes=1 No=3	633
19. Were row spacing or plant density adjusted to manage pests?.....	Yes=1 No=3	634
20. Was a trap crop grown to help manage insects?.....	Yes=1 No=3	635
21. Were any beneficial organisms such as insects, nematodes, or fungi applied or released to manage pests?	Yes=1 No=3	636
22. Were floral lures, attractant repellants, pheromone traps, or other biological pest controls used on any vegetable acres?.....	Yes=1 No=3	637
23. Were any vegetable acres cultivated for weed control during the growing season?.....	Yes=1 No=3	640
24. Were field edges, lanes, ditches, roadways, or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?.....	Yes=1 No=3	642
25. Were equipment and implements cleaned after completing field work to reduce the spread of pests?.....	Yes=1 No=3	643
26. Were any vegetable acres irrigated for the 2024 crop?.....	Yes=1 No=3	644
[If item 26 = Yes, ask —]		
a. Were water management practices, excluding chemigation, such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?.....	Yes=1 No=3	645

COMPLETION CODE for PEST MANAGEMENT PRACTICES	
1 Incomp/R	500

CONCLUSION

1. **Survey Results:** To receive the complete results of this survey on the release date, go to nass.usda.gov/results

To have a brief summary emailed to you, please enter your email address:

1095

[Thank the respondent, then review this questionnaire.]

H H M M

0005

Ending time [Military].....

Office Use
Time in Hours

006

Record Use

[Did respondent use operation records to report —]

Code

026

064

064

064

Contact Information

Operation Email: (if different from above)

Operation Phone:

9937

9936

check if
cell phone
☐

Respondent Name:

Respondent Phone: (if different from above)

9912

9911

check if
cell phone
☐

9910 MM DD YYYY

Date: ____

OFFICE USE									
R. Unit	Ptr 1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	SSO 1	ADJ	Optional Use	
9921	9922	9923	9927	9928	923	9907	922	9906	9916
Response		Respondent		Mode		Enum.	POID		
1-Comp 2-R 3-Inac 4-Office Hold		9901	1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9-Other	9902	2-PATI (tel) 3-PAPI (Face-to-Face)	9903	9998	9989	
								Eval.	Change
								9900	9985