

# 2022 VEGETABLE CHEMICAL USE SURVEY

OMB No. 0535-0218  
 Approval Expires: 11/30/2023  
 Project Code: 136  
 SurveyID: 2069



U.S. Department of Agriculture  
 National Operations Division  
 9700 Page Avenue, Suite 400  
 St. Louis, MO 63132-1547  
 Phone: 1-888-424-7828  
 Fax: 855-415-3687  
 Email: nass@nass.usda.gov

CALIFORNIA ENTERPRISE

<b>VERSION</b> 01	<b>POID</b> _____	<b>SUBTRACT</b> _____
----------------------	----------------------	--------------------------

**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
BEGINNING TIME [MILITARY].....	004 _____

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.]

	Code	
1. Has there been a change in operation name or operator?.....	Yes=1 No=3	023

[If item 1 = 1, continue

If item 1 = 3, go to Enumerator Note below.]

Operation Name _____ Operator Name _____ Address _____ _____ Phone ( _____ ) _____ <input type="checkbox"/> Check if cell phone
---

[Enumerator Note: If the operation on the face page was in business part of the 2022 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 2022 crop year? [See page 6 for target crops.]

Yes - Continue

No - Write notes explaining the situation then go to Conclusion on back page.

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

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

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

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.

Partners: POID _____	Partners: POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
PHONE NUMBER <input type="checkbox"/> Check if cell phone	PHONE NUMBER <input type="checkbox"/> Check if cell phone
Partners: POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP
PHONE NUMBER <input type="checkbox"/> Check if cell phone	PHONE NUMBER <input type="checkbox"/> Check if cell 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:(_____) _____ <input type="checkbox"/> Check if cell phone	Phone:(_____) _____ <input type="checkbox"/> 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

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

County		Number			

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:(_____) _____ <input type="checkbox"/> Check if cell phone	Phone:(_____) _____ <input type="checkbox"/> 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--

a. own?.....

+

Acres

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

**B****VEGETABLE ACREAGE****B**

1. ]What target vegetable crops were on these [Section A, item 4] acres during the 2022 crop year? EXCLUDE new plantings of vegetables not intended for harvest in 2022.

Table  
001Office 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 2021 crop year [crop]? MM DD YY	On what date did you complete harvest of your 2022 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 2021 if they were part of the 2022 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.

FERTILIZER APPLICATIONS

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 D, page 9.

1. I need to record complete information on all commercial fertilizers applied to the bearing acres of target fruit grown during the 2022 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

200

Office Use Lines in Table	Table 001	299
------------------------------	--------------	-----

LINE	1	2	3	4	5	6	7	8	9	10
	Crop	Crop Code	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S	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? [Include bearing acres only]	How many times was it applied?
			N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	S			Acres	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	23	33	34	36	37	40	41
17			31	32	33	34	36	37	40	41



## FERTILIZER APPLICATIONS

LINE	1	2	3	4	5	6	7	8	9	10
	Crop	Crop Code	NITROGEN N	PHOSPHATE P <sub>2</sub> O <sub>5</sub>	POTASH K <sub>2</sub> O	SULFUR S	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? [INCLUDE bearing acres only]	How many times was it applied?
									Acres	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	23	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

**E PEST MANAGEMENT PRACTICES**

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 5?]

Yes - Continue     No - Go to item 4

	Code
1. Was weather data used to assist in determining either the need or when to make pesticide applications?.....	Yes=1 No=3
2. Were any biological pesticides such as Bt ( <i>Bacillus thuringiensis</i> ), 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
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

	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
4. In 2022, how were your vegetable acres primarily scouted for insects, weeds, diseases and/or beneficial organisms?.....			Yes=1 No=3

	Code
5. Was an established scouting process used such as systemic sampling, recording counts, insect traps, etc., on any vegetable acres?.....	Yes=1 No=3
6. Was scouting for pests done on these vegetable acres due to--	Code
a. a pest advisory warning?.....	Yes=1 No=3
b. a pest development model?.....	Yes=1 No=3

	1	
7. Were your vegetable acres scouted for --	Yes = 1 No = 3	2 [If column 1 = 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 2022 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. To receive the complete results of this survey on the release date, go to  
[https://www.nass.usda.gov/Surveys/Guide\\_to\\_NASS\\_Surveys/](https://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/)

To have a summary emailed to you at a later date, please enter your email address.

1095
------

[Thank the respondent, then review this questionnaire.]

Ending time [Military].....

H H M M
0005
— — — —

Office Use  
Time in Hours

006
-----

### Record Use

Did respondent use operation records to report pesticide data?

	Code
Yes=1 No=3	064

### Contact Information

Operation Email: (if different from above)

Operation Phone:

9937	9936 ( ) - _____	check if cell phone <input type="checkbox"/>
------	---------------------	--

Respondent Name:

Respondent Phone: (if different from above)

9912	9911 ( ) - _____	check if cell phone <input type="checkbox"/>	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			
							-----		-----	
							9900		9985	