

# 2021 FRUIT CHEMICAL USE SURVEY

OMB No. 0535-0218  
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 SurveyID: 1241



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CALIFORNIA ENTERPRISE

<b>VERSION</b> 01	<b>POID</b> _____	<b>SUBTRACT</b> _____
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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 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 45 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.

1. During 2021, were any crops, including new plantings, livestock or poultry on the total acres operated? EXCLUDE crops produced by a tenant if target operator is landlord only.  Yes - [Go to item 1, page 2]    No - [Continue]
2. During 2021, did this operation sell any agricultural products or receive government agricultural payments? EXCLUDE crops produced by a tenant if target operator is landlord only.  Yes - [Go to item 1, page 2]    No - [Continue]
3. During 2021, were any crops stored on the total acres operated? EXCLUDE crops produced by a tenant if target operator is landlord only.  Yes - [Go to item 1, page 2]    No - [Continue]
4. During 2021, did this operation have any fruit acres which were operated by a management firm?  Yes - [Go to item 1, page 2]    No - [Go to page 4]

## SCREENING

1. Did this operation have any of the target crops during the 2021 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 Section A]

a hired manager? [Go to Section A]

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 Section A. Partners jointly operate land and share in decision making. Do not include landlords and tenants as partners].....

Number

--

Partners: POID _____	Partners: POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY                      STATE      ZIP                      PHONE NUMBER	CITY                      STATE      ZIP                      PHONE NUMBER
Partners: POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY                      STATE      ZIP                      PHONE NUMBER	CITY                      STATE      ZIP                      PHONE NUMBER

## CALIFORNIA SCREENING

4. What ID (pesticide permit number) does this operation use for reporting pesticide applications on the target crops bearing 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 5]

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

Name: _____	Name: _____
Address: _____	Address: _____
Phone: (_____) _____	Phone: (_____) _____

5. 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 item 6]

- 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 item 6]

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

Name: _____	Name: _____
Reporting ID: _____	Reporting ID: _____
Address: _____	Address: _____
Phone: (_____) _____	Phone: (_____) _____

6. Do you employ a fruit management company to care for any of the targeted fruit crops?

1  Yes - [Continue]      3  No - [Go to page 4]

- a. What fruit management company do you employ?

Name: _____	Name: _____
Address: _____	Address: _____
Phone: (_____) _____	Phone: (_____) _____

## CHANGE IN OPERATOR STATUS

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[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, complete name and address information below for new operator and continue.  
If item 1 = 3, go to Enumerator Note below.]

	Operation Name _____
	Operator Name _____
	Address _____
	_____
	Phone (_____) _____

[Enumerator Note: If the operation on the face page was in business part of the 2021 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?

Yes - [Go to "Conclusion"]

No - [Continue]

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

Acres Operated

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

=

900	._
-----	----

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

 Yes - [Continue] 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? .....

802	._
-----	----

## INCLUDE

- land in hay
- summer fallow
- cropland idle
- cropland used for pasture
- cropland in government programs

4. Of the total acres operated, how many acres are in fruit? INCLUDE bearing and non-bearing acreage in trees, vineyards, and bushes.....

803	._
-----	----

**B****FRUIT ACREAGE****B**

1. What target fruit crops were on these [Section A, item 4] acres during the 2021 crop year?

Table  
001**EXCLUDE**

- new plantings
- other plantings which are not yet bearing

Office Use  
Lines in Table

Line 99 199

L I N E	1	2	3	5	6	7
	Crop	Crop Code	How many bearing acres of [crop] did this operation have?  Acres	Were any herbicides, insecticides, fungicides, etc. applied to this crop?  Yes = 1 No = 3	On what date did you complete harvest of your 2020 crop year [crop]?  MM DD YY	On what date did you complete harvest of your 2021 crop year [crop]?  MM DD YY
01			11	13	14	15
02			11	13	14	15
03			11	13	14	15
04			11	13	14	15
05			11	13	14	15
06			11	13	14	15
07			11	13	14	15
08			11	13	14	15
09			11	13	14	15
10			11	13	14	15
11			11	13	14	15
12			11	13	14	15
13			11	13	14	15
14			11	13	14	15
15			11	13	14	15

## California - Crop Codes

301 Apples	Grapes	330 Kiwifruit	520 Pears
303 Apricots	424 Raisin type varieties	331 Lemons	550 Plums
305 Avocados	(include all uses for	333 Nectarines	343 Prunes
312 Cherries, Sweet	Thompson Seedless variety)	492 Olives	345 Raspberries
316 Dates	524 Table type varieties	435 Navel Oranges	748 Strawberries
320 Grapefruit	624 Wine type varieties	535 Valencia Oranges	349 Tangerines / Tangelos
		340 Peaches	

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						

**INCLUDE**

- Target Crops only.
- All commercial bearing acreage equal to or greater than one tenth of an acre.
- All bearing acreage of Target Crops for processing or fresh market.
- All bearing of Target Crops for roadside stands, farmer's markets or U-pick sales.
- Bearing acreage not harvested due to weather, economic or other reasons.
- Crops planted in the fall of 2020 if they were part of the 2021 crop.

**EXCLUDE**

- All crops grown in another state.
- Non-commercial orchard and vineyard acreage (home garden).
- Non-target fruits.
- New plantings and other plantings which are not yet bearing.
- All Target Crops grown by institutional, experimental, research and university farms (abnormal farms).
- Abandoned orchards and vineyards.

**E PEST MANAGEMENT PRACTICES**

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

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

Yes - [Continue]     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<br>No=3 | Code<br>600 |
| 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<br>No=3 | Code<br>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<br>No=3 | Code<br>602 |

- |   |   |             |
|---|---|-------------|
| 4. In 2021, how were your fruit acres primarily scouted for insects, weeds, diseases, and/or beneficial organisms?..... | 1 By deliberately going to the fruit acres specifically for scouting activities. [Enter code 1 and go to item 5.]<br><br>2 By conducting general observations while performing routine tasks. [Enter code 2 and go to item 7.]<br><br>3 The fruit acres were not scouted. [Enter code 3 and go to item 10.] | Code<br>608 |
|---|---|-------------|

- |   |               |             |
|---|---------------|-------------|
| 5. Was an established scouting process used such as systemic sampling, recording counts, insect traps, etc., on any fruit acres?..... | Yes=1<br>No=3 | Code<br>609 |
| 6. Was scouting for pests done on these fruit acres due to--  |               | Code        |
| a. a pest advisory warning?.....  | Yes=1<br>No=3 | Code<br>610 |
| b. a pest development model?.....   | Yes=1<br>No=3 | Code<br>611 |

7. Were your fruit acres scouted for --	Yes = 1 No = 3	[If column 1 is 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
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, including drops, rotting fruit and/or debris, removed to manage pests?.....	Yes=1 No=3	627
13. Were ground covers, mulches, or other physical barriers maintained to manage pest problems?.....	Yes=1 No=3	629
14. Were any beneficial organisms such as insects, nematodes, or fungi applied or released to manage pests?	Yes=1 No=3	636
15. Were floral lures, attractant repellants, pheromone traps or other biological pest controls used on any fruit acres?.....	Yes=1 No=3	637
16. Were any fruit acres cultivated for weed control during the growing season?.....	Yes=1 No=3	640
17. Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any fruit acres?.....	Yes=1 No=3	642
18. Were equipment and implements cleaned after completing field work to reduce the spread of pests?.....	Yes=1 No=3	643
19. Were any fruit acres irrigated for the 2021 crop?.....	Yes=1 No=3	644
[If item 19 = 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

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**Use This Space for Notes and Comments.**

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**Use This Space for Notes and Comments.**

## 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
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[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"/>
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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		
							Eval.	Change	
							9900	9985	