

2023 FRUIT CHEMICAL USE SURVEY

OMB No. 0535-0218
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CALIFORNIA ENTERPRISE

VERSION 01	POID _____	SUBTRACT _____
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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.

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H H M M

004

BEGINNING TIME [MILITARY].....

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

- During 2023, 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]
- During 2023, 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]
- During 2023, 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]
- During 2023, 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 2023 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

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- 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]

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 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

[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?.....	Yes=1 No=3	Code 023
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[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 2023 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 2023 crop year?

Table
001

EXCLUDE

- new plantings
- other plantings which are not yet bearing

Office Use
Lines in Table

Line 99

199

LINE	1	2	3	4	5	6	7
	Crop	Crop Code	How many bearing 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 2022 crop year [crop]? MM DD YY	On what date did you complete harvest of your 2023 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

California – Crop Codes

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

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 acreage 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 2022 if they were part of the 2023 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.

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.

1. I need to record complete information on all commercial fertilizers applied to the bearing acres of target fruit grown during the 2023 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
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LINE	1	2	3	4	5	6	7	8	9	10
	Crop	Crop Code	N N I T R O G E N N	P P H O S P H A T E P ₂ O ₅	P P O T A S H K ₂ O	S S U L F U R 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] 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	23	33	34	36	37	40	41
17			31	32	33	34	36	37	40	41

FERTILIZER APPLICATIONS

LINE	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? [INCLUDE bearing acres only] 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	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

E

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]

	Yes=1 No=3	Code
1. Was weather data used to assist in determining either the need or when to make pesticide applications?.....		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?.....		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?.....		602

	Yes=1 No=3	Code
4. In 2023, how were your fruit acres primarily scouted for insects, weeds, diseases, and/or beneficial organisms?....		608

1 By deliberately going to the fruit 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 fruit acres were not scouted. [Enter code 3 and go to item 10.]

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

7. Were your fruit acres scouted for —		[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 2023 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

CONCLUSION

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

1. Ending time.....

0005

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

Record Use

Code

Did respondent use operation records to report pesticide data?.....

Yes=1
No=3

064

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	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	