

Fruit Chemical Use Survey





United States Department of Agriculture National Agricultural Statistics Department Southern Plains Regional Field Office



Fruit Chemical Use Survey



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Fruit Chemical Use Survey



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Primary objective is to provide timely, reliable, detailed data to develop an agricultural chemical use database, and for analysis of pesticide usage and pest management practices of target fruit crop in selected states.





Reasons to Respond



- EPA needs actual usage data for re-registration of these chemical products important to producers
- Respondents completing the survey will be offered one Continuing Education Unit toward their pesticide applicator's license by TX Department of Agriculture.



Reasons to Respond



- Survey results are included in USDA's pesticide data program (PDP)
 used to evaluate the safety of the nation's food supply, potential
 human exposure to pesticide residues, and water quality issues.
- Growers show how they manage chemical usage in a responsible way: their actual usage vs. maximum label rates applied to total acres (used in lieu of reported usage for a product).
- Results document producer practices after implementation of the Food Safety Modernization Act of 2011.



Survey Data Users Include:



- EPA, AMS, ERS, other gov't agencies
- Produce industry (growers, processors)
- Educational and research institutions
- Policy-makers
- Businesses involved with food industry
- Consumers



Fruit Chemical Data Use



- In decisions about re-registration of chemical products used in agriculture
- To meet the legislative mandate of the Food Quality Protection Act.
- State level FCUS estimates are used to address water quality and food safety issues.
- In private sector for making decisions about chemical use in U.S. agriculture.



Survey Procedures



- Project code is 141
- 12 states are conducting this survey
- Texas sample size is 97
- Texas will survey only Grapefruit



Survey Procedures



- Survey covers: 2023 Crop Year
 - begins <u>after 2022</u> fruit crop harvest through end of 2023 fruit crop harvest on the target operation
 - Grapefruit harvest range: November March

- Changes from last time (2021)
 - Fertilizer section included



Respondent Packet Contents



- What has the respondent received?
 - Information Copy of Questionnaire
 - Respondent Booklet
 - Pre-Survey Letter



Survey Data To Be Collected



- 1. Fruit acreage grapefruit
- 2. Fertilizer applications
- 3. Pesticide applications
- 4. Pest management practices



Questionnaire Sections



Screening Questions

A: Land Operated -- only land in US for this operation

B: Fruit Acreage – *Grapefruit*

C: Fertilizer Applications – Grapefruit

D: Pesticide Applications – *Grapefruit*

E: Pest Management Practices – <u>Total Fruit</u> acres on operation

Conclusion



Questionnaire Sections



Question:

• If the respondent says he does not use pesticides, can you skip to the conclusion?

- No. Pest Management Practices (Section E) applies to everyone, regardless of pesticide use.
- Ask about non-restricted-use pesticides.



Questionnaire Review



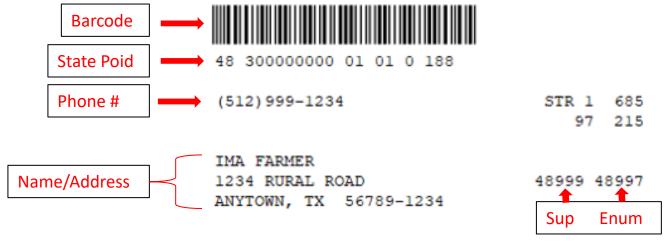




Questionnaire Face Page



2023 FRUIT CHEMICAL USE SURVEY



OMB No. 0535-0218 Approval Expires: 6/30/2026 Project Code: 141 SurveyID: 1241

Project Code 141



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@usda.gov

ENTERPRISE

				ENTERFRISE
VERSION 01		POID	SUBTRACT	
	•	CC	ONTACT RECORD	
DATE	TIME			NOTES



Questionnaire Face Page



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.

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.
- 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.
- During 2023, were any crops stored on the total acres operated? EXCLUDE crops produced by a tenant if target operator is landlord only.
- 4. During 2023, did this operation have any fruit acres which were operated by a management firm?

☐ Yes	[Go to	item 1	1, pa	ge 2]	□ No -	[Continue]
-------	--------	--------	-------	-------	--------	------------

☐ Yes – [Go to item 1, page 2] ☐ No – [Continue]

☐ Yes – [Go to item 1, page 2] ☐ No – [Continue]

□ Yes – [Go to item 1, page 2] □ No – [Go to page 4]

Remember to use a 24-hour time format



Screening



	2
sc	CREENING
Did this operation have any of the target crops du Yes – [Continue] No – [Write notes explaining the situation then	uring the 2023 crop year? [See page 3 for target crops.]
Are the day-to-day decisions for this operation (n one individual? [Go to Section A] a hired manager? [Go to Section A] partners? [Continue]	name on label) made by — [Check one]
 How many individuals are involved in the day-to- number of partners, including the partner named of partnership below, then go to Section A. Partners making. Do not include landlords and tenants as 	on the label. Identify the other persons in this Number rs jointly operate land and share in decision
Partners: POID	Partners: POID
ADDRESS CITY STATE ZIP PHONE NUMB	ADDRESS ABER CITY STATE ZIP PHONE NUMBER
Partners: POID	POID
ADDRESS CITY STATE ZIP PHONE NUMB	ADDRESS ABER CITY STATE ZIP PHONE NUMBER

Remember: Abandoned or lost crops should still answer "Yes" to this screening question! We want to know about any chemicals they applied regardless of harvest.



Provide information describing why "No target crops". Note if crop is for home use only.

Follow skip patterns and verify boxes are checked properly.

Cell will contain number only if "Partners" box is checked.



Change in Operator Status



CHANG	ODED	ATOD	CTAT	THE
CHANG	UPER	AIUK	. JIAI	0.5

* Skip this section in there's NO change in the section in the sec
operation name or
operator.
If there is a change,
determine if substitution is allowed.



Change in Operator Status



Substitution Rules

- Substitution Allowed:
 - New operator can report all chemical data for the entire calendar year of 2023

AND

- Operation was not merged or combined with any other operation
- Substitution Not Allowed:
 - Another existing operation was combined with our target operation.



Section A: Land Operated







Section A: Land Operated



- Record all acreage that this operation owns, rents, or rents out.
- Land operated in other states should be included (ONLY IF)
 farmer makes day to day decisions for that land.
- Add 1a + 1b 1c = Total Acres operated IM pages 501-506



Section A: Land Operated



Α	LAND OPERATED	Α
Ac	res Operated	
1.	How many acres does this operation	Acres
	a. own?	+ 901 700. <u>0</u>
	b. rent or lease from others or use rent free? EXCLUDE land used on an animal unit month (AUM) basis	+ 902 <u>200.0</u>
	c. rent to others?	- 905 100 <u>.0</u>
2.	Then the total acres operated are: [item 1a + 1b - 1c]	= ⁹⁰⁰ 800. <u>0</u>
	 a. Does this include the farmstead, all cropland, woodland, pastureland, wasteland, and government program land? \[\sum \text{Yes} - [Continue] \] 	
	☐ No - [Make corrections, then continue.]	
Th	e 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	⁸⁰² 750.0
4.	Of the total acres operated, how many acres are in fruit? INCLUDE bearing and non-bearing acreage in trees, vineyards and bushes	803 400. <u>0</u>





Section B: Fruit Acreage

IM Pages 507- 513



Section B: Fruit Acreage



- The purpose of this section is to obtain the number of bearing acres of each of the target fruit crops.
- Do not collect acreage or pesticide data for any fruit crops or acres for operations other than the target operation.

IM pages 507-513

	Texas:
320	Grapefruit



Section B: Fruit Acreage



6

FRUIT ACREAGE

В

 What target fruit crops were on these [Section A, item 4] acres during the 2023 crop year?

EXCLUDE

- new plantings
- other plantings which are not yet bearing

	1	2	3	4	5
L I N E	Crop	Crop Code	How many bearing acres of [crop] did this operation have?	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
01	Grapefruit	320	¹¹ 160. <u>0</u>	¹² 1	13 1
02	-		11	12	13
03			11	12	13
04			11	12	13
05			11	12	13
06			11	12	13
07			11	12	13
08			11	12	13
09			11	12	13
10			11	12	13
11			11	12	13
12			11 .	12	13
13			11	12	13
14			11	12	13

Table 001
e Use n Table
199

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 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 fruit.
- 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.

- Column 1 Crop name
- Column 2 Crop code
- Column 3 Bearing acres of crop on operation
- Column 4 Fertilizer
 Applied
- Column 5 Pesticide
 Applied









- Column 1 Crop Name
 - Record the name of the target crop to which the operation applied commercial fertilizers during the 2023 crop year.
- Column 2 Crop Code
 - Refer to Column 2 in the Section B table for the target crop code
- IM page 513





- Columns 3-6 Nitrogen (N), Phosphate (P₂O₅), Potash (K₂O) & Sulfur
 (S)
 - Record the plant nutrients [Nitrogen (N), Phosphate (P2O5), Potash (K2O) & Sulfur (S)] of each fertilizer material applied to the selected target commodity field. These nutrients can be reported in either two ways:
 - Percent Analysis: this is the percentage composition of the product expressed in terms that the law requires and permits
 - Pounds of actual nutrients: use pounds of actual plant nutrients in absolutely necessary.
- IM Pages 513-516





- Column 7 Quantity Applied Per Acre
 - Leave this column blank if actual nutrients were reported. If pounds, gallons, quarts or ounces were reported, record the amount used per acre.
- Column 8 Unit Codes
 - Units which the respondent may report are listed
 - Ex: Gallons reported, enter code 12
 - Ex: Quarts reported, enter code 13
- IM Page 517





- Column 9 Acres Applied
 - Record the total number of acres receiving the reported fertilizer application. Record treated acres, which is the actual land acres treated with fertilizer.
- Column 10 Number of Times Applied
 - If more than one application of the same fertilizer material, with the same quantity user per acre for each application, was made to the same acres, account for this in Column 10.
- IM Page 517





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FERTILIZER APPLICATIONS

C

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.

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

Office Use Table 299 Lines in Table 001

10 S How much was Unit Codes How many acres How many Н O T applied per acre was this applied times was it per application? 1 Pounds to? [Include applied? bearing acres R 12 Gallons OGEN Leave this column 13 Quarts only] blank if actual 15 Liquid Oz. 28 Dry Oz. nutrients were 19 Actual reported.] Nutrients Crop Crop Code P_2O_5 K₂O S Acres Number 32 40 Grapefruit 320 1.5_ 8.0 6 0 31 32 33 34 40 41 02 40 32 33 34 36 31 41 03 31 32 33 34 36 37 40 41 04 31 32 33 34 36 37 40 41 05 33 37 40 31 32 41 06 40 41 31

If column 4 in section B is yes for any crop, continue, if No, then go to section D











- Record target crop name and the enter crop code (from page 3)
 - Grapefruit = 320
- Please refer to your Respondent Booklet for correct product name & code
- Record each product used on a separate line
- Products not listed in the booklet, record at the bottom of the page
- IM pages 514-527





9

PESTICIDE APPLICATIONS Now I have some questions about pesticide and chemical applications to your bearing fruit acreage before harvest. Please consider all applications made to trees, vineyards or bushes which occurred after last season's harvest. 1. Since last year's (2022) harvest, did you use herbicides on any of your bearing fruit acreage?...... \Box □ No 2. Since last year's (2022) harvest, did you use insecticides, nematicides, or miticide on any of your bearing fruit acreage?...... Yes □ No 3. Since last year's (2022) harvest, did you use any fungicides on any of your bearing fruit acreage?...... Yes □ No 4. Since last year's (2022) harvest, did you use any other chemicals such as chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, etc. on any of your bearing fruit acreage?...... \square Yes □ No

[Enumerator Action: If all items 1 – 4 are No, go to Section E, page 12, otherwise continue.]





- Columns 1 & 2 Crop Name & Code
 - Record the crop name and code for each pesticide application. Each pesticide product must be recorded on a separate line, so you may have several lines for each crop receiving chemical applications.

		1	2	3	4	5
	L			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical	N	•				[If tank mix, enter line number of first
Product Name		Crop	Crop Code	[Enter product code.]	[Enter L or D.]	product in mix.]
Krovar I DF	01	Grapefruit	320	⁶¹ 41834	D	63 _
Esteem 35 WP	02	Grapefruit	320	10877	D	63
Lorsban-4E	03	Grapefruit	320	10983	L	63 _
Vendex 50 WP	04	Grapefruit	320	⁶¹ 10197	D	63 4
Agri-Mek 0.15 EC	05	Grapefruit	320	10405	L	63 4
Enable 2F	06	Grapefruit	320	⁶¹ 70611	L	⁶³ 6
GEM Plus	07	Grapefruit	320	61 _	D	63
Dormant Flowable Emulsion	08	Grapefruit	320	⁶¹ 11558	L	63 6





Column 3 – Product Code

 Record the product code from the respondent booklet of the herbicide, insecticide, fungicide, etc., reported. Be sure to write the product code clearly.

		1	2	3	4	5
	L			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical Product Name	N E	Crop	Crop Code	[Enter product code.]	[Enter L or D.]	[If tank mix, enter line number of first product in mix.]
Krovar I DF	01	Grapefruit	320	⁶¹ 41834	D	63 _
Esteem 35 WP	02	Grapefruit	320	10877	D	63
Lorsban-4E	03	Grapefruit	320	10983	L	63 _
Vendex 50 WP	04	Grapefruit	320	10197	D	63 4
Agri-Mek 0.15 EC	05	Grapefruit	320	10405	L	63 4
Enable 2F	06	Grapefruit	320	⁶¹ 70611	L	63
GEM Plus	07	Grapefruit	320	61 _	D	63
Dormant Flowable Emulsion	08	Grapefruit	320	11558	L	63 6





• Column 4 – Liquid or Dry

Record and "L" or a "D" in this column to indicated in what form the product was
 AT TIME OF PURCHASE.

		1	2	3	4	5
	L			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical Product Name	N E	Crop	Crop Code	[Enter product code.]	[Enter L or D.]	[If tank mix, enter line number of first product in mix.]
Krovar I DF	01	Grapefruit	320	⁶¹ 41834	D	63 _
Esteem 35 WP	02	Grapefruit	320	10877	D	63
Lorsban-4E	03	Grapefruit	320	⁶¹ 10983	L	63 _
Vendex 50 WP	04	Grapefruit	320	⁶¹ 10197	D	63 4
Agri-Mek 0.15 EC	05	Grapefruit	320	10405	L	⁶³ 4
Enable 2F	06	Grapefruit	320	⁶¹ 70611	L	63
GEM Plus	07	Grapefruit	320	61 _	D	⁶³ 6
Dormant Flowable Emulsion	08	Grapefruit	320	⁶¹ 11558	L	⁶³ 6

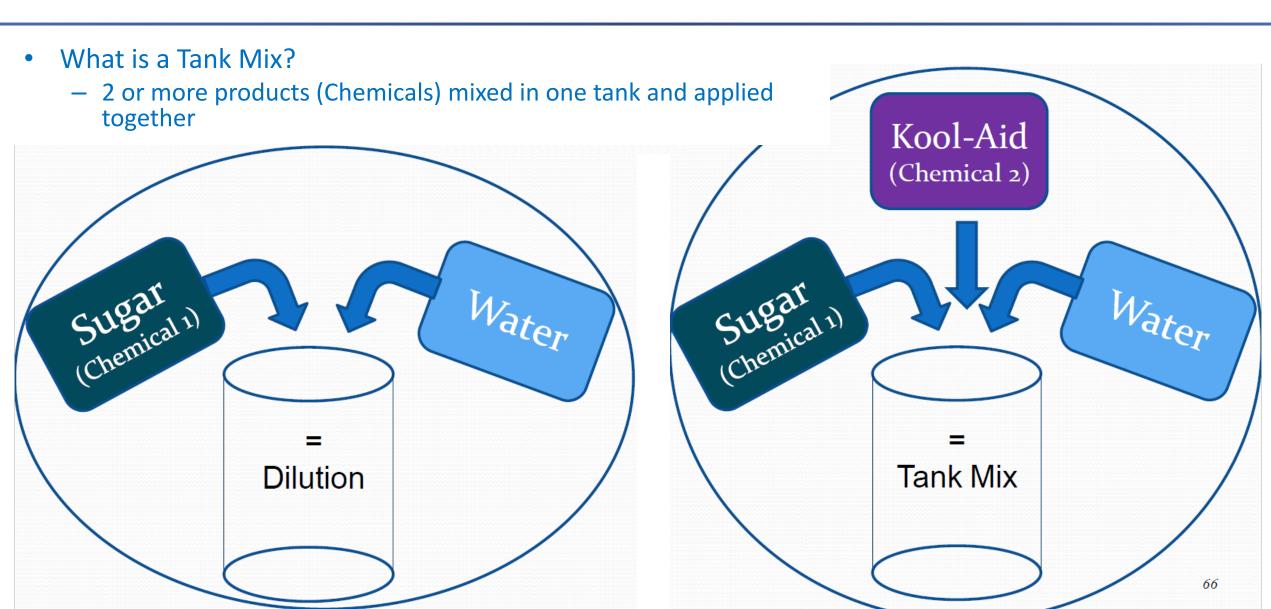




- Column 5 Tank Mix (Pages 522-527)
 - For products not applied as part of a tank mix, leave this column blank or put a dash.
 - Products applied in a tank mix (two or more products mixed in the tank by the farmer/custom applicator and applied together) must be identified on the questionnaire.
 - Target crop, acres applied, and times applied must all be the same.











Tank Mixes

- Two items are in a single tank mix: Lines 4 and 5.
- Lines must be next to each other in the table.

		1	2	3	4	5
	Ļ			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical Product Name	N E	Crop	Crop Code		[Enter L or D.]	[If tank mix, enter line number of first product in mix.]
Krovar I DF	01	Grapefruit	320	⁶¹ 41834	D	63 _
Esteem 35 WP	02	Grapefruit	320	⁶¹ 10877	D	63 _
Lorsban-4E	03	Grapefruit	320	10983	L	63 _
Vendex 50 WP	04	Grapefruit	320	⁶¹ 10197	D	⁶³ 4
Agri-Mek 0.15 EC	05	Grapefruit	320	⁶¹ 10405	L	⁶³ 4







Tank Mixes

What does this mean?

		1	2	3	4	5
	Ļ			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical	Ņ					[If tank mix, enter line number of first
Product Name		Crop	Crop Code	[Enter product code.]	[Enter L or D.]	product in mix.]
Krovar I DF	01	Grapefruit	320	⁶¹ 41834	D	63 _
Esteem 35 WP	02	Grapefruit	320	10877	D	63
Lorsban-4E	03	Grapefruit	320	10983	L	63 -
Vendex 50 WP	04	Grapefruit	320	10197	D	⁶³ 4
Agri-Mek 0.15 EC	05	Grapefruit	320	10405	L	⁶³ 4
Enable 2F	06	Grapefruit	320	⁶¹ 70611	L	63
GEM Plus	07	Grapefruit	320	61 _	D	63
Dormant Flowable Emulsion	08	Grapefruit	320	⁶¹ 11558	L	63

Lines 4 & 5 were

- combined in the same tank
- applied to the same field
- at the same time

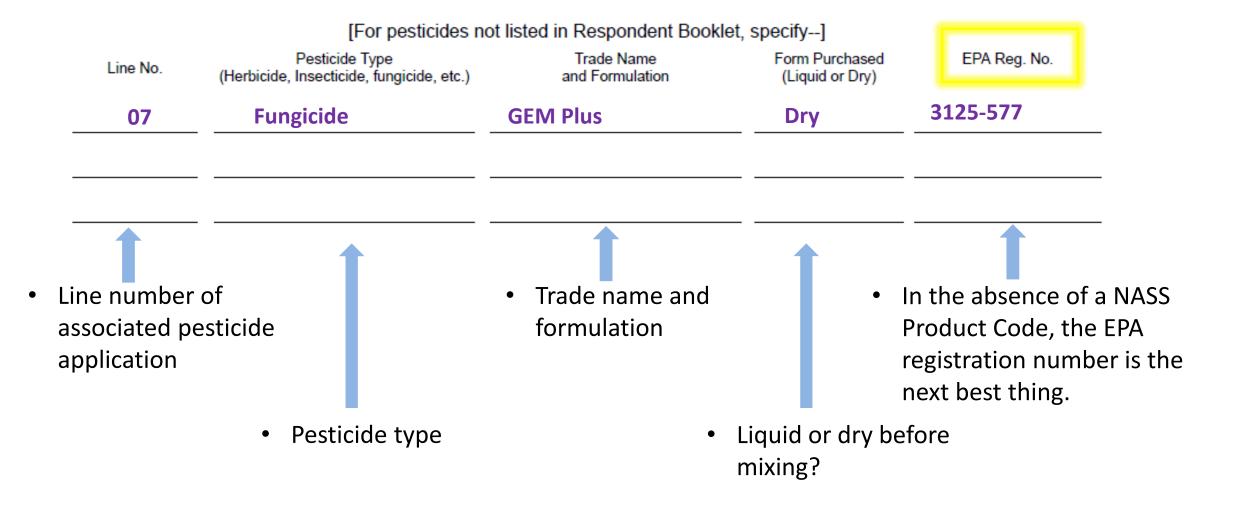
Lines 6, 7, & 8 were

- combined in the same tank
- applied to the same field
- at the same time













Reminder: If column 5 in section D is YES for target crop, continue, if NO, then go to section E

Codes for Column 8

1 Pounds 12 Gallons 13 Quarts 14 Pints	30 Grams 40 Kilograms 41 Liters 46 Spirals
15 Ounces, Liquid 28 Ounces, Dry	47 Packets 50 Other (Specify:)

Office Use

300

1 1		7	0	9	10	11
L N E	How much was applied per acre per application?	What was the total amount applied per application?	[Enter unit code from above.] What percent of the row were covered with an airblast application? 100 All Rows 50 Every Other Row Other Percent		How many acres were treated with this product? [INCLUDE bearing acres only.]	How many times was this product applied?
01	65	73	74	75	77	79

Either amount per acre OR

Total amount rounded to two decimals

Unit code

% of rows covered

Acres applied

times applied





Supplements are required if more than 33 lines are needed

2023 FRUIT CHEMICAL USE SURVEY

ENTERPRISE VERSION
ALL STATES EXCEPT CALIFORNIA

PESTICIDE APPLICATIONS TABLE SUPPLEMENTS

P	EST	ICIDE API		TIONS S	UPPLE	EMEN	Т			
			VERSION	1	ID		SUBTRACT	T-TY	'PE	TABLE
			01					3		
							IN TABLE CE USE	LINE 99	399)
CHEMICAL	L I N E	1		2 CROP	What p were a to the	3 products applied [crop]?	Was prod bougl liquid dry fo	this luct ht in d or orm?	[If tan	5 Vas this part of a ank mix? ok mix, enter e number rst product
PRODUCT NAME	01	CROP		CODE	[Enter pro	duct code	.] [Enter L		63	in mix.]
	02				61				63	
	03				61				63	
	04				61				63	





Other Resources:

- EPA Product Label Search
 - http://iaspub.epa.gov/apex/pesticides/f?p=PPLS:1

- CDMS Product Label Database
 - http://www.cdms.net/Label-Database

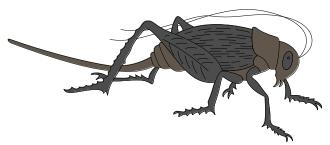








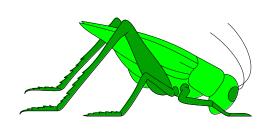








Page 528 IM





Section E: Pest Management Practices



on page 6, Column 4

in Section E

then skip to Question 4

Code

608

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. Pest management By pests, we mean insects, weeds, and diseases. practices used on total [Enumerator Action: Were pesticide applications reported in Section B, column 5 on page 6?] fruit acres in 2023 Yes – [Continue] No – [Go to item 4] Pest management is used to control insects, 600 1. Was weather data used to assist in determining either the need or when to make Yes=1 weeds, and diseases pesticide applications?..... 2. Were any biological pesticides such as Bt (Bacillus thuringiensis), insect growth regulators, such as Courier, Intrepid, etc., Neem or other natural/biological based Yes=1 products sprayed or applied to manage pests?..... Questions 1-3 relate to 3. Were pesticides with different mechanisms of action rotated or tank mixed for the pesticide applications Yes= primary purpose of keeping pests from becoming resistant to pesticides?..... By deliberately going to the fruit acres specifically for scouting activities. [Enter code 1 and go to If NO pesticides applied item 5.]

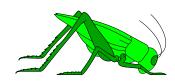
2 By conducting general observations while

item 7.1

and go to item 10.]

performing routine tasks. [Enter code 2 and go to

3 The fruit acres were not scouted. [Enter code 3]



In 2023, how were your fruit acres

primarily scouted for insects, weeds,

diseases, and/or beneficial organisms?...



Section E: Pest Management Practices



• Question 4 – How were fruit acres scouted?

• 1 – Deliberately scout.

• 2 – General observation.

• 3 – Were not scouted.

608=1 and go to Question 5

608=2 and go to Question 7

608=3 and go to Question 10

 In 2023, how were your fruit acres primarily scouted for insects, weeds, diseases, and/or beneficial organisms?.... By deliberately going to the fruit acres specifically for scouting activities. [Enter code 1 and go to item 5.]
 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.]

Code



608

Section E: Pest Management Practices



Deliberate Scouting

Code 1

• If Question 4 = 1, ask Questions 5-9



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

		[If column 1 is Yes, ask]			
		Who did the majority of the scouting for column 1?			
Were your fruit acres scouted for		2 An employee			
	Yes = 1	3 Farm supply or chemical dealer			
	No = 3	4 Independent crop consultant or commercial scout			
a. weeds?	612	⁶¹⁴ 1			
b. insects or mites?	⁶¹⁵ 1	⁶¹⁷ 2			
c. disease?	618 3	620			



Section E: Pest Management Practices



General Observation

Code

608

• If Question 4 = 2, ask Questions 7-9



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

					[If column 1 is Yes, ask]
	7. Wer	re your fruit acres scouted for		Yes = 1	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
				No = 3	4 Independent crop consultant or commercial scout
	a.	weeds?	612	1	⁶¹⁴ 1
TO THE PERSON NAMED IN COLUMN TO THE	b.	insects or mites?	615	1	617 2
7	C.	disease?	618	3	620



Sec E page 15: Pest Management Practices



PEST MANAGEMENT PRACTICES Code Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases? 624 9. Was scouting data compared to published information on infestation thresholds to determine Yes=1 when to take measures to manage pests? No=3 625 Yes=1 10. Was field mapping data used for making pest management decisions?..... No=3 626 11. Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue Yes=1 pest analysis? No=3 627 Yes=1 12. Were crop residues, including drops, rotting fruit and/or debris, removed to manage pests?....... No=3 629 Yes=1 13. Were ground covers, mulches, or other physical barriers maintained to manage pest problems? No=3 636 14. Were any beneficial organisms such as insects, nematodes, or fungi applied or released to Yes=1 manage pests? No=3 15. Were floral lures, attractant repellants, pheromone traps or other biological pest controls used Yes=1 on any fruit acres?..... No=3 640 Yes=1

16. Were any fruit acres cultivated for weed control during the growing season?.....

Other Items

Yes=1 No =
$$3$$

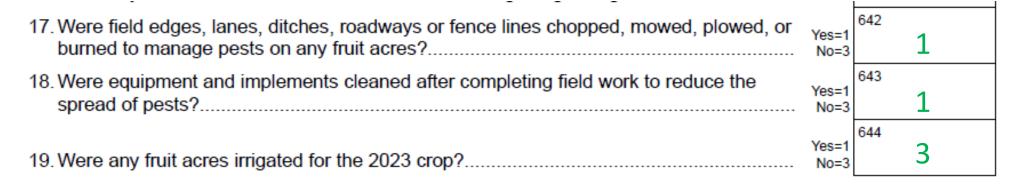
- Keep Records
- Mapping
- Crop Residues
- Ground Covers, mulches, etc.
- Planting locations & harvest dates
- Beneficial Organisms
- Irrigation





Sec E page 15: Pest Management Practices





[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?.....

	645
Yes=1	
No=3	

COMPLETION CODE for PEST MANAGEMENT PRACTICES							
1 Incomp/R	500						

Do not code completion boxes at bottom of page 15



Conclusion



CONCLUSION

[Enumerator Note: Thank the respondent, then review this questionnaire.] Office Use Only Ending Time (Military) OR **Total Hours** Hours Minutes Hours Minutes 0005 8000 15

14

Record the Ending Time OR Total Hours

1. Ending time.....



Conclusion



Record Use			
[Did respondent use operation records to report—]			Code
Fertilizer data?		TPS-	026 1
Pesticide data?		Yes=1 No=3	064
Supplement Use			
[Record the total number of supplements used to comple	te this interview.]		Number
Fertilizer Supplements			067
Pesticide Supplements			068
Contact Information			
Operator Email:		Operator Phone:	
FruitChem@aol.com	9917 Check to receive results by email	9918 (123) <u>456-789</u>	check if cell phone
Operation Email: (if different from above)		Operation Phone: (if differ	ent from above)
9937	9920 Check to receive results by email	9936	check if cell phone
•	oondent Phone (if differen	ent from above)	
1ma Farmer ()	cell phone	M DD YY 0 15 23

- How reliable is this data?
 - Rough guess?
 - Or did they use records?
- Supplement Use:
 - This is not asking if they used pesticides
 - This is the number of respective supplements you used
- Who completed most of the questionnaire?
 - Leave notes if multiple people



Conclusion



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	Option	nal Use
9921	9922	9923	9927	9928	923	9907	922	9906	9916
Res	ponse	Respo	ndent	Mod	e	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 48999	9989 — — — — Eval. 9900	9985	Change

• Always write your 5-digit enumerator ID



Response Example: Operation Sold





Operator sold his operation during 2023 crop year.

Farmer A



Farmer A (Sold Farm in 2023)



	CHANGE IN O	PERATOR STATUS		
[Enumerator Note:	Skip this section if there is no chan	ge in operation name or operator.]	_	
			Code	
Has there been a change in operation name or operator?		erator?	Yes=1 023 1	
•	plete name and address information Enumerator Note below.]	below for new operator and continue.		
		Operation Name Daffy D	Ouck Farm	
		Operator Name WOOC	Duck	
		Address 1234 Rural	ess 1234 Rural Rd	
		Sagebrush TX 5	6789	
		Phone (512)123-99		
[Enumerator Note:	questionnaire for the part of the ye operation has been taken over by	vas in business part of the 2023 crop y ear during which the operation did busi a new operator. If the operator has ch to finish with the new operator after re he Interviewer's Manual.]	ness, unless the nanged midyear,	
2. Has the operat	tion printed on this questionnaire bee	en combined or merged with any other	farming operations?	
Yes - [Go	to "Conclusion"1			

No – [Continue]



Farmer A (Sold Farm in 2023)



- If Farmer A completed his 2023 crop year harvest, then complete the questionnaire with Farmer A.
- If new operator DID MERGE this operation with another operation, then DO NOT CONTACT new operator. (No substitution is allowed)
- If Farmer A sold his farm before 2023 crop harvest, then contact new operator, only if new owner DID NOT MERGE this operation with another operation and can give data for all of 2023 crop year.





Consent Form



Consent Form



• Gives you (enumerator) the consent to get pesticide data from the caretaking company listed on the form.

• If caretaking company makes day-to-day decisions for target operator, then collect all data for Sections A-E.



2023 FCUS Consent Form



Project 141 OMB No. 0535-0218 Approval Expires 11/30/2024



2023 FRUIT CHEMICAL USE SURVEY Consent Form





U.S Department of Agriculture Room 5030, South Building 1400 Independence Ave., S.W. Washington, DC 20250-2000

Phone: 1-800-727-9540 Fax: 1-202-690-2090 Email: nass@nass.usda.gov

The National Agricultural Statistics Service (NASS) of the U.S. Department of Agriculture is conducting a Fruit Chemical Use Survey for the 2023 crop year. The survey will be conducted from October 2023 through January 2023.

By signing this Consent Form, the Owner agrees to allow the caretaking company listed below to provide the necessary information for the completion of the Fruit Chemical Use Survey for the selected operation to the National Agricultural Statistics Service. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both is he or she willfully discloses ANY identifiable information about you or your operation. Response is voluntary. Results of the survey, showing State and National level results for the selected commodities will be available at the end of July 2023. 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 for this information collection 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.



Consent Form



Ask operator to complete the Consent Form with:

- Owner's information
- Check the box that consent was provided over the phone



 Fruit Caretaking Company contact information



2023 FCUS Consent Form



Operation Name:

Owner Name: Ima Farmer

Owner Address: 1234 Rural Rd

Sagebrush TX 56789

Owner Signature:

10/15/23

Date:

1

Operator/Owner provided consent over the telephone.

Caretaking

Company Name:

Doe Vegetable Services

Caretaking

Company Address:

999 Cloud Rd

Sagebrush TX 56789

512-999-1111

Phone Number:

Joe Enumerator





CEU CARD

Continuing Education Unit



CEU Card



One hour Continuing Education Unit (CEU)

Dear Producer:

Texas Department of Agriculture has agreed to grant one Continuing Education Unit (CEU) in Laws and Regulations to you for participating in this survey. This can be applied toward your pesticide applicator license requirements.

Our confidentiality rules require that we have your permission before we turn your name over to TDA for credit. We will provide TDA only information shown on this form. We will not disclose any other survey information to them. Please complete and sign the card below, so that we can make sure that you get the proper credit for completing the survey.

Thank you for your participation!

For additional information, please call 1-800-626-3142



Certificate of Completion

retion

This certifies that

(Name)	

has successfully completed Texas Department of Agriculture approved Pesticide Applicator Continuing Education Credits

One [1] Laws and Regulations Course Number xxxxxxxxx

Wilbert Hundl, Jr. Course Representative

month day, year

Note: Keep this certificate. In order to re-certify, you will be responsible for reporting completed continuing education credits.





CEU CARD

- Complete the required information below in its entirety.
- TDA will kick it back if any information is missing and the operator will not get credit.

PLEASE PRINT or TYPE ALL INFORMATION

(Information must be legible)

Name [as it appears on License]				
Pesticide License # [must be filled in]				
Address:				
City:	_State:	Zip:		
Signature:		Date:		
Enumerator, please return with completed survey!				
Enumerator name:	POID_			

RETURN TO:

USDA/NASS P O BOX 70 AUSTIN TX 78767

AUSTIN, TX 78767

ATTN: SURVEY SECTION



CEU Credit



- One per producer for a completed Fruit Chemical Use Survey only.
- Must already have a license to get credit.
- If multiple people help complete the survey, they each can get the credit (for example, 2 partners).
- Enumerators can also get credit.
- The Certificate of Completion will be mailed to the respondent as their questionnaire is returned.



United States Department of Agriculture

COUNTS

National Agricultural Statistics Service Southern Plains Regional Field Office

Administrative Notes



Due Dates



- Data collection for Fruit Chemical Use
 - October 17 December 10
- Enumerators will enter data on the paper questionnaires and give to supervisors for review.
- The CAPI listings are for information only to show what has been completed.
- Only refusals, inaccessibles, and OOBs should be submitted through CAPI.
- Completed questionnaires must be given to supervisors as soon as possible.



Due Dates



- Supervisors can meet enumerators in person once or twice to pick up completed work and review it together.
- After initial supervisor visit, enumerators must send completed questionnaires to their supervisor.
- Supervisors must send reviewed questionnaires to the NOC as soon as possible.
- Supervisors are provided UPS labels and supplies to ship to the NOC.
- The RFO will provide UPS labels and shipping supplies for enumerators to send work to supervisors on a "request" basis.



Due Dates



Stay in touch with your supervisor!!

December 10 is the last day to send questionnaires to your Supervisor.

December 14 is the last day to send completed questionnaires to the NOC.

All questionnaires and materials with PII must be sent back to Austin if not sent to the NOC.

Questionnaires need to be sent to the NOC as completed, DO NOT HOLD QUESTIONNAIRES!!



More Details



- Many enumerators are working ARMS 2 and Cotton OY.
- OY field work must take priority due to the tight timeframe for the field work.
- Fruit Chemical Use data collection is by telephone and personal interview.
 - If record is set to personal interview, please make no more than 2 visit attempts and try to make call attempts to schedule an interview day/time.
- Some interviews may take 2 or more contacts to complete.



More Details



It is best for the operator to have completed all field work but if not, get best estimates of chemical applications and field operations.

As always, the interview should be conducted at the best time for the operator.



Disconnected/Bad Phone Numbers



- Call the office to look up better numbers
 - **-** 512-501-3200
 - Authur Chapman
 - Ayanna Sylvester
 - Carla Whitt
 - Gabe Massiate
 - Leonel Lopez
 - <u>DO NOT</u> email personally identifiable information (PII)
 - Names, addresses, phone numbers, etc..



Reminders



- Safety first!
- Please be a safe and considerate driver.
- As always, survey data and PII are confidential.
- Stay in contact with your supervisor.
- Report problems and issues early.
- NASDA-NASS website and survey website
- Use all of the resources you have.
- Project Code 141 -> Fruit Chemical Use
- Thank you!!





Thank you!!!