2023 FRUIT CHEMICAL USE SURVEY

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



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						ENTE	RPRISE	Ε	
VERSION 01		POID	SUB	TRACT					
			CONTACT	RECORD					
DATE	TIME				NOTES				
discloses AN accordance v U.S.C. Ch. 33 https://www.n According to collection of i complete this	Y identifiable information of the Confident of the Confident of the Confident of the Confident of the Paperwork Romation unless information colle	mation about you or you ial Information Protection able Federal laws. For mation fidentiality. Response is eduction Act of 1995, and it displays a valid OMB ction is estimated to ave	or operation is a n and Statistica nore information voluntary. agency may no control number rage 45 minuter	subject to a al Efficiency in on how w ot conduct in The valid	nse will be kept confidential in a literm, a fine, or both. The Act of 2018, Title III of Public protect your information processing or sponsor, and a person is I OMB number is 0535-0218 onse, including the time for a completing and reviewing the second completing and review in the second completing the second comple	is survey L. No. 11 blease visi not requir The time	is conduct 5-435, contributed to respect required instruction	cted in odified pond to to ns,	i in 44 to a
BEGINNIN	IG TIME [MILI	[ARY]					H H		м О
□ Name, a	address, and p	artners verified and	updated if n	ecessary					
planting	as livestock or	y crops, including ne poultry on the total crops produced by llord only.	acres	p∕Yes –	[Go to item 1, page 2]	□ No ·	– [Conti	nue]	
During product paymer target of the control of	2023, did this is or receive go hts? EXCLUD operator is land	operation sell any agovernment agricultur E crops produced by llord only.	al y a tenant if	□ Yes –	[Go to item 1, page 2]	□ No -	– [Conti	nue)	
3. During acres o tenant i	2023, were an perated? EXC f target operat	y crops stored on the CLUDE crops product or is landlord only.	ed by a	□ Yes –	[Go to item 1, page 2]	□ No -	- [Conti	nue]	
	anna did this	operation have any t by a management fi	fruit acres rm?	□ Yes –	[Go to item 1, page 2]	□ No -	- [Go to	pag	e 4]

SCREENING

 Did this operation have any of the target crops during the 2023 crop year? [See page 3 for target crops.] Yes – [Continue] No – [Write notes explaining the situation then go to "Conclusion" on back page.] 					
Are the day-to-day decisions for this operation (name	e on label) made by — [Check one]				
✓ one individual? [Go to Section A]					
a hired manager? [Go to Section A]					
partners? [Continue]					
number of partners, including the partner named on the partnership below, then go to Section A. Partners join making. Do not include landlords and tenants as part	ntly operate land and share in decision				
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				

TARGET CROPS & CODES

	FLORIDA
320	Grapefruit
335	Oranges, All
748	Strawberries
349	Tangerines/Tangelos

T is	<u>GEORGIA</u>
309	Blueberries
340	Peaches

	MICHIGAN
301	Apples
309	Blueberries
314	Cherries, Tart
340	Peaches

	NEW JERSEY
309	Blueberries
340	Peaches

	NEW YORK	
301	Apples	
314	Cherries, Tart	
		_

	NORTH CAROLINA	
309	Blueberries	

	OREGON	
301	Apples	
309	Blueberries	
312	Cherries, Sweet	
520	Pears	
V-100		

	PENNSYLVANIA	
301	Apples	
340	Peaches	
		١

SOUTH CAROLINA 340 Peaches

	<u>TEXAS</u>
320	Grapefruit

	WASHINGTON
301	Apples
309	Blueberries
312	Cherries, Sweet
314	Cherries, Tart
624	Grapes, Wine
520	Pears
345	Raspberries

CHANGE IN OPERATOR STATUS

[Enumerator Note: Skip this section if there is no change in operation name or operator.] Code Yes=1 023 1. Has there been a change in operation name or operator?...... No=3 [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]

Acres Operated	A	res	O	oer	rat	e	d
----------------	---	-----	---	-----	-----	---	---

1. How many	acres does this operation—			Acres	
a. own?		+	901	20	<u>.o</u>
	lease from others or use rent free? EXCLUDE land used on an animal unit (AUM) basis	+	902		_
c. rent to	others?	_	905		
	otal acres operated are: [item 1a + 1b – 1c]	=	900	20	.0
governi	nis include the farmstead, all cropland, woodland, pastureland, wasteland, and ment program land?	Ĺ			
	– [Continue] – [Make corrections, then continue.]				
The second second	questions in this survey refer to these [item 2] acres.		Grand Town		
3. Of the total	acres operated, how many acres are considered cropland?		802	20	<u>.</u> c
suncrojcroj	d in hay nmer fallow pland idle pland used for pasture pland in government programs				
4. Of the total	acres operated, how many acres are in fruit? INCLUDE bearing and non- reage in trees, vineyards, and bushes		803	20	0_0

Notes:

 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

	Table 001
	ice Use s in Table
Line 99	199

LIZE	Сгор	2 Crop Code	How many bearing acres of [crop] did this operation have?		Were any commercial fertilizers applied to this crop? Yes = 1 No = 3		5 Were any herbicides, insecticides, fungicides, etc. applied to this crop? Yes = 1 No = 3	
01	Blueberries	309	11	16	.0	12	1	13
02			11			12		13
03			11			12		13
04			11			12		13
05			11			12	71	13
06			11			12	Y	13
07			11			12		13
08		Barra.	11	1,2		12	4	13
			11			12		13
09			11		-	12	3.85	13
10			11	-	<u>:</u>	12		13
11			11		<u>:-</u>	12		13
12			11		·	12		13
13		10.113	11		<u>·</u>	12		13
14			11		_	12		13
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 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.

DE LES			
		diameter and	
· Alaye			

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		100

Table

Office Use

								Lines in Ta	ble 001	
LZE		2	3 NITROGEN	4 PHOSPHATE	P O T A S H	6 S U L F U R	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	How many acres was this applied to? [Include bearing acres only]	10 How many times was it applied?
	Сгор	Crop Code	N	P ₂ O ₅	K₂O	S			Acres	Number
01	Blueberies	309	31 10	³² 34	33	34	36 12 .0	³⁷ 12	40 16 <u>.0</u>	41
02	Bluebaries	309	31	32	33 GO	34	³⁶ >0 .0		40 16 .B	41 /
03		12 - 1	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	38	37	40	41
09			31	32	33	34	36	37	40	41
10	- 11 5 - 1		31	32	33	34	36	37	40	41
11			31	32	33	34	36	37	40	41
12		57 -2	31	32	33	34	36	37	40	41
13			31	32	33	34	36	37	40	41
14		Y F	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		The	31	32	33	34	36	37		41

L 7 E	1 2	3 N I T R O G E N	4 P H O S P H A	5 P O T A S H	6 S U L F U R	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	9 How many acres was this applied to? [INCLUDE bearing acres only]	10 How many times was it applied?
			E				Nutrients	Acres	Number
18	Crop Crop (Code N	P ₂ O ₅	K₂O 33	34	36	37	40	41
-	43.0-04	31	32	33	34	36	37	40	41
19	7				34	36	37	40	41
20		31	32	33		·-		•	41
21		31	32	33	34	36	37	· <u> </u>	
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
-		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	10 0					36	37	40	41
28		31	32	33	34	•			
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
		31	32	33	34	36	37	40	41
32		31	23	33	34	36	37	40	41
33		31	32	33	34	36	37	40	41
34			No.		34	36	37	40	41
35		31	32	33				-	_
36		31	32	33	34	36	37	40	41
37	9	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

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?	✓ Yes	
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?		ØNo
[E	numerator Action: If all items 1 – 4 are No, go to Section E, page 12, otherwise continue.]		

[Enumerator Action: If pesticides were reported in Section B, column 5, continue. Otherwise, go to Section E.]

5. Now I need to get complete information on all of the chemicals applied, including applications made by you and/or by custom applicators during the 2023 crop year to each of the target fruit crops you grew. Let's start with the first application to your crop since the 2022 crop year harvest.

INCLUDE the table for all chemical applications to the target fruit crops. Use supplemental tables if

necessary.

INCLUDE herbicides, insecticides, nematicides, miticide fungicides, chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, and soil fumigants.

EXCLUDE seed treatments, foliar applications of nutrients, and applications made to fruit after harvest.

0.00	Table	300
Office Use Lines in Table	001	12

	L -:	1	2	3 What products were applied to the [crop]?	4 Was this product bought in liquid or dry form?	5 Was this part of a tank mix? [If tank mix, enter
Chemical Product Name	E	Crop	Crop Code	[Enter product code.]	[Enter L or D.]	line number of first product in mix.]
Gramoxone	01	Blueberries	309	61 41283	L	63 01
Rim 25	02	Bhebaries	309	61 41811	L	63 01
Mustang Maxx	03	Bluebores	309	61 11354	L	63 03
Sufarix	04	Bluebares	309	61 70752	L	63 03
Inidan	05	Blueberries	309	61 10496	D	63 _
Diazinon 50	06	Blueberies	309	61 11315	D	63 _
Sulfarix	07	Blueberres	309	61 707 5Z	L	63 —
Enable 2F	08	Bluebarries	309	61 >0611	L	63 _
Bravo 720	09	Blueberies	309	61 70994	L	63 _
Sulforix	10	Blueberres	309	61 20252	L	63 _
Dupont Lamate	11	Blue berrier	309	61 1009>	L	63 1
Emble 2F	12	Blueberras	309	61 >0611	L	63
	13			61		63
	14			61		63
	15			61		63

[For pesticides not listed in Respondent Booklet, specify-]

Line No.	Pesticide Type (Herbicide, Insecticide, fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

Codes for Column 8

1 Pounds
12 Gallons
13 Quarts
14 Pints
15 Ounces, Liquid
28 Ounces, Dry

30 Grams
40 Kilograms
41 Liters
46 Spirals
47 Packets
50 Other
(Specify:_____)

Office Use

	6 OR	7	8	9	10	11
LINE	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 rows 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? Number
01	65 1 .00	73	74 14	75 100	" 16 .0	79
02	65 Z4.00	73	74 15	75 180	77 16 .0	79
03	65 4.00	73	74 15	75 100	" 16 <u>.0</u>	79 3
04	65 1 .00	73	74 12	75 100	77 16 . <u>0</u>	79 3
05	65 1.33	73	74	⁷⁵ 100	77 16 <u>.0</u>	79
06	65 1.00	73	74 1	75 100	" 16 <u>.0</u>	79
07	65 1.00	73	74 12	75 100	" 16 <u>.0</u>	79
08	65 2.00	73	74 15	75 1BB	77 16 .0	79
09	65 16.00	73	74 15	75 100	" 16 <u>.0</u>	
10	65 I . <u>O O</u>	73	74 12	⁷⁵ 100	" 16 <u>.0</u>	79
11	1.00	73	74 14	75 100	7 16.0	79
12	65 Z .OO	73	74 14	75 100	" 16.0	79
13	65	73	74	75	77	79
14	65	73	74	75	77	79
15	65	73	74	75	77	79

[For pesticides not listed in Respondent Booklet, specify—]

Line No.	Pesticide Type (Herbicide, Insecticide, fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.	
4.4					

Chemical Product Name	L I N E	1 Crop	2 Crop Code	What products were applied to the [crop]?	4 Was this product bought in liquid or dry form? [Enter L or D.]	[If tank mix, enter line number of first product in mix.]
r roduce realite				61		63
	16			61		63
	17			61		63
	18				L. San and Barrier	
	19			61		63
				61		63
	20			61		63
	21			61		63
1 2 1 1 2	22			61		63
	23					
	24			61	1	63
				61		63
	25			61	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	63
	26			61		63
	27					63
	28			61		03
	29	T and a		61		63
				61		63
	30		0	61		63
	31			61		63
	32					
	33			61		63

Line No.	Pesticide Type (Herbicide, Insecticide, fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.	

Codes for Column 8

 1 Pounds
 30 Grams

 12 Gallons
 40 Kilograms

 13 Quarts
 41 Liters

 14 Pints
 46 Spirals

 15 Ounces, Liquid
 47 Packets

 28 Ounces, Dry
 50 Other (Specify:

	6 OF	7	8	9	10	11
LINE	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 rows	How many acres were treated with this product? [INCLUDE bearing acres only.] Bearing Acres	How many times was this product applied? Number
16	65	73	74	75		79
17	65	73	74	75	77	79
18	65	73	74	75	77	79
19	65	73	74	75	77	79
20	65	73	74	75	77	79
21	65	73	74	75	77	79
22	65	73	74	75	77	79
23	65	73	74	75	77	79
24	65	73	74	75	77	79
25	65	73	74	75	77	79
26	65	73	74	75	77	79
27	65	73	74	75	77	79
28	65	73	74	75	77	79
29	65	73	74	75	77	79
30	65	73	74	75	77	79
31	65	73	74	75	77	79
32	65	73	74	75	77	79
33	65	73	74	75	77	79

[For pesticides not listed in Respondent Booklet, specify-]

Line No.		(Herbicide, Insecticide, fungicide, etc.)	and Formulation	(Liquid or Dry)	EPA Reg. No.	
		_				

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.

[Ei	numerator Action: Were pesticide application	ns i	reported in	n Section B, column 5 on page	6?]		
Z	Yes – [Continue] No – [Go to item 4]						
							Code
1.	Was weather data used to assist in determ pesticide applications?	inin	g either th	ne need or when to make	Yes=1 No=3	600	1
2.	Were any biological pesticides such as Bt regulators, such as Courier, Intrepid, etc., I products sprayed or applied to manage pe	Vee	m or othe	r natural/biological based	Yes=1 No=3	601	3
3.	Were pesticides with different mechanisms primary purpose of keeping pests from bed				Yes=1 No=3	602	1
4.	In 2023, how were your fruit acres primarily scouted for insects, weeds, diseases, and/or beneficial organisms?		for scouting item 5.]	ately going to the fruit acres specifical g activities. [Enter code 1 and go to ting general observations while routine tasks. [Enter code 2 and go		608	Code 2
		3		cres were not scouted. [Enter code 3 tem 10.]			
5.	Was an established scouting process used				Yes=1	609	Code
_	counts, insect traps, etc., on any fruit acres				No=3		
6.	Was scouting for pests done on these fruit	acre	es due to-				Code
	a. a pest advisory warning?				Yes=1 No=3	610	_
	b. a pest development model?				Yes=1 No=3	611	-
7.	Were your fruit acres scouted for —		Yes = 1 No = 3	[If column 1 is Yes, ask—] Who did the majority of the scoutin 1 Operator, partner or family m 2 An employee 3 Farm supply or chemical dea 4 Independent crop consultant	ember ler		
	a. weeds?	612	1	614			
	b. insects or mites?	615	1 - 0	617			
	c. disease?	618	1	620			FM (

			Coos
Were written or electronic records kept to track the activity insects or diseases?	163-1	623	3
Was scouting data compared to published information on it determine when to take measures to manage pests?		624	3
10. Was field mapping data used for making pest managemen	t decisions? Yes=1	625	1
11. Were the services of a diagnostic laboratory used for pest tissue pest analysis?	103-1	626	3
12. Were crop residues, including drops, rotting fruit and/or de pests?		627	1
13. Were ground covers, mulches, or other physical barriers m	naintained to manage pest	629	1
14. Were any beneficial organisms such as insects, nematode released to manage pests?		636	3
15. Were floral lures, attractant repellants, pheromone traps or controls used on any fruit acres?	169-1	637	3
16. Were any fruit acres cultivated for weed control during the	growing season? Yes=1	640	3
17. Were field edges, lanes, ditches, roadways or fence lines of burned to manage pests on any fruit acres?		642	3
18. Were equipment and implements cleaned after completing spread of pests?		643	1
19. Were any fruit acres irrigated for the 2023 crop?	Yes=1 No=3	644	1
[If item 19 = Yes, ask—]		Ù.	
 Were water management practices, excluding chemigal scheduling, controlled drainage, or treatment of retention pests? 	on water used to manage	645	3

COMPLETION CODE for PEST MANAGEMENT PRACTICES							
1 Incomp/R	500						

10

CONCLUSION

[Enumerator Note: Thank the respondent, then rev	riew this	questionnaire.]							
		Offi	ce Use C	Only					
	1.6. 9	Ending Time (Military)	OR	Total Ho		lours	ours	
	= 1	Hours	Minutes	 	Hours	\Box	Minu	utes	
1. Ending time	0005	18	30	0008					
Record Use									
[Did respondent use operation records to report—]							Code	,	
Fertilizer data?					Yes=		17		
Pesticide data?					Yes=		1		
Supplement Use									
[Record the total number of supplements used to co	omplete	this interview.]				_	Numbe	er	
Fertilizer Supplements						067	-		
Pesticide Supplements						068	-		
Contact Information									
Operator Email:			Opera	ator Phone	:		4		
9929		9917 Check to receive results by email	9918)				heck if Il phone	
Operation Email: (if different from above)			Opera	tion Phone	e: (if diffe	erent fr	rom ab	ove)	
9937		9920 Check to receive results by email	9938)		71		heck if Il phone	
	Respor	ndent Phone (if diffe	rent from	above)					
Respondent Name:	9911	The same		check if cell phone	9910	ММ	DD	YY	
					1		10		

This completes the survey. The results will be available on the release date at nass.usda.gov/results Thank you for your help.

					OFFICE US	SE			
R. Unit	Ptr	1 Str	Ptr 2 Str	Ptr 3 Str	Ptr 4 Str	OPS	\$50 1	ADJ	Optional Use
9921	9922		9923	9927	9928	923	9907	922	9906 9916
Re	sponse		Respo	ondent	Mo	de	Enum.	RO PLANE	POID
1-Comp 2-R 3-Inac		9901	1-Op/Mgr 2-Spouse 3-Acct/Bkpr	3-PAPI (Fac	2-PATI (tel) 3-PAPI (Face-to- Face)			9998 9989	
4-Office Hold			4-Partner					Eval.	Change
			9-Other					9900	9985