2017 FRUIT CHEMICAL USE SURVEY

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ENTERPRISE

VERSION	POID	SUBTRACT
01		

			CONTACT R		
DATI	E T	IME		NOTES	
INTROD	UCTION: yourself, a	nd ask for	the operator. Rephrase in your own wor	ds.]	
provide wi identifiable the Confic	ill be used for e information lential Inform n on how wo	or statistica n about yo nation Pro	al purposes only. Your responses will be u or your operation is subject to a jail ten tection provisions of Title V, Subtitle A, P	ke the information as accurate as possible. T e kept confidential and any person who willfully m, a fine, or both. This survey is conducted in Public Law 107-347 and other applicable Fede nass.usda.gov/confidentiality. Response to th	/ discloses ANY accordance with ral laws. For more
collection 0535-021 for review	of information 8. The time	on unless i required to ons, searc	t displays a valid OMB control number. o complete this information collection is e	conduct or sponsor, and a person is not requir The valid OMB control number for this informa estimated to average 45 minutes per response d maintaining the data needed, and completing	ation collection is e, including the time
We encou	irage you to	refer to yo	our farm records during the interview.		
BEGINNI			Υ]		004
			ners verified and updated if necessar		
livest crops	ock or pou s produced	ltry on the by a tena	rops (<i>including new plantings</i>), e total acres operated?(<i>Exclude</i> ant if [target] operator is landlord	□ YES – [Go to item 1, page 2.] □ N C	D -[Continue.]
or rec crops	ceive gove	nment ag by a tena	eration sell any agricultural products gricultural payments?(Exclude ant if [target] operator is landlord	□ YES - [Go to item 1, page 2.] □ N C	0 -[Continue.]
opera	ated? (Exc	lude cro	rops stored on the total acres ps produced by a tenant if [target])	□ YES - [Go to item 1, page 2.] □ NC) -[Continue.]
			ration have any fruit acres a management firm ?	☐ YES - [Go to item 1, page 2.] □ N (D -[Go to page 4.]

SCREENING

1. Did this operation have any of the target crops during the 2017 crop year?

YES - [Continue.]

NO - [Write notes explaining situation then go to "Conclusion" on back page.]

Notes

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.]

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

4. Please identify the other person(s) in this partnership, then go to Section **A**. [Verify partners' names and make necessary corrections if names have already been entered.]

PARTNERS	POID			PARTNERS	POID		
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
PARTNERS	POID			PARTNERS	POID		
PARTNERS PARTNER NAME	POID			PARTNERS PARTNER NAME	POID		
	POID			-	POID		

TARGET CROPS & CODES

<u>FLORIDA</u>

320	Grapefruit
335	Oranges, All
349	Tangerines (including Tangelos)

GEORGIA

309	Blueberries
340	Peaches

MICHIGAN

301	Apples
309	Blueberries
312	Cherries, Sweet
314	Cherries, Tart
340	Peaches

	NEW JERSEY
309	Blueberries
340	Peaches

<u>NEW YORK</u>

301 Apples

314 Cherries, Tart

324 Grapes, All

NORTH CAROLINA

301 Apples

309 Blueberries

<u>OREGON</u> Apples Blackberries

309 Blueberries

- 312 Cherries, Sweet
- 520 Pears

301

307

345 Raspberries

PENNSYLVANIA

301 Apples

340 Peaches

340PeachesTEXAS320Grapefruit340Peaches

SOUTH CAROLINA

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

- 3 -	
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CHANGE IN OPERATING 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?

NO - [Go to Enumerator Note below.]
--

YES - [Enter code 1, complete name and address information below for new operator,	023
and read Enumerator Note.]	

Operation Name
Operator Name
Address
Phone ()

CODE

[ENUMERATOR NOTE: If the operation on the face page was in business part of the 2017 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.]

Has the operation printed on this questionnaire been combined or merged with any other farming operations?
 Yes - [Go to "Conclusion".]

No - [Continue.]

LAND OPERATED

Now I would like to ask about the total acres operated under this land arrangement.

1. How many acres does this operation---

Α

			ACRES
			901
	a.	Own?+	·
	b.	Rent or lease from others or use rent free?	902
		(Exclude land used on an animal unit month (AUM) basis.)	·
			905
	c.	Rent to others?	•
			900
2.	[Ca	Iculate item 1a + 1b - 1c.] Then the total acres operated are:	·
	a.	Does this include the farmstead, all cropland, woodland, pasture land,	
	.	wasteland, and government program land?	
		□ YES - [Continue.] □ NO - [Make corrections, then continue.]	
Th	o roi	maining questions in this survey refer to these [<i>item 2</i>] acres.	
•••			
3.	Of	the total acres operated, how many acres are considered cropland, including	
-			802
		povernment programs?	•
4.		the total acres operated, how many acres are in fruit?	803
	(Inc	clude bearing and non-bearing acreage in trees, vineyards and bushes.)	•

Α

FRUIT ACREAGE

 What target fruit crops were on these [Section A, item 4] acres during the 2017 crop year? (Exclude new plantings and other plantings which are not yet bearing.)

	1	2	3	6
L I N E	CROP	CROP CODE	How many BEARING acres of [<i>crop</i>] did this operation have?	Were any herbicides, insecticides, fungicides, etc. applied to this crop?
			ACRES	[YES = 1]
01			11 ·	13
02			11 ·	13
03			11 ·	13
04			11 •	13
05				13
06			11 ·	13
07			11 ·	13
08			11 •	13
09			11 ·	13
10			11 ·	13
11			11 •	13
12			11 •	13
13			11 ·	13
14			11 ·	13
15			11 ·	13

	TABLE 001
OFFIC LINES IN	E USE N TABLE
LINE 99	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 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 2016 if they were part of the 2017 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).

NOTES:

В

[•] Abandoned orchards and vineyards.

- 7 -

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**.

D

1.	Since last year's (2016) harvest, did you use herbicides on any of your bearing fruit acreage?	U YES	
2.	Since last year's (2016) harvest, did you use insecticides, nematicides or miticides on any of your bearing fruit acreage?		
3.	Since last year's (2016) harvest, did you use any fungicides on any of your bearing fruit acreage?		
4.	Since last year's (2016) harvest, did you use any other chemicals such as chemical thinners, growth regulators, microbial agents, pheromones, rodenticides, soil fumigants, etc. on any of your bearing fruit acreage?	S YES	

5. [ENUMERATION ACTION: If ALL items 1 – 4 are NO, go to Section E, page; else continue.]

- 8 -

[ENUMERATOR ACTION: If pesticides were reported in Section B, column 5, continue. Otherwise, skip to Section E.]

6. 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 2017 crop year to each of the target FRUIT crops you grew. Let's start with the first application to your [*crop*] since the 2016 crop year harvest.

[Complete the table for all chemical applications to the target fruit crops. Use supplemental tables if necessary.] (**Include** herbicides, insecticides, nematicides, miticides, 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.)

				OFFICE USE LINES IN TABLE	TABLE 39 001	9
	L I N E	1	2	3 What products were applied to the [<i>crop</i>]?	4 Was this product bought in liquid or dry form?	5 Was this part of a tank mix? [If tank mix, enter line number
CHEMICAL PRODUCT NAME		CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	of first product in mix.]
	01			61		63
	02			61		63
	03			61		63
	04			61		63
	05			61		63
	06			61		63
	07			61		63
	08			61		63
	09			61		63
	10			61		63
	11			61		63
	12			61		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.

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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 C	R 7	8	9	10	11
L I 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 rows were covered? 100 All Rows 50 Every Other Row Other	How many acres were treated with this product? [Include bearing acres only.]	How many times was it applied?
			CODE	[Enter percent covered.]	BEARING ACRES	NUMBER
01	65 	73 ·	74	75		79
02	65 	73	74	75		79
03	65 	73	74	75		79
04	65 	73	74	75		79
05	65 	73	74	75		79
06	65 	73	74	75		79
07	65 	73 ·	74	75	77	79
08	65 	73	74	75	77	79
09	65 	73	74	75	77	79
10	65 	73 ·	74	75		79
11	65 	73	74	75	77	79
12	65 	73 ·	74	75		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 No.

D

		1	2	3	4	5
CHEMICAL	L I N E		CROP	What products were applied to the [<i>crop</i>]?	Was this product bought in liquid or dry form?	Was this part of a tank mix? [If tank mix, enter line number of first product
PRODUCT NAME		CROP	CODE	[Enter product code.]	[Enter L or D.]	in mix.]
	16			61		63
	17			61		63
	18			61		63
	19			61		63
	20			61		63
	21			61		63
	22			61		63
	23			61		63
	24			61		63
	25			61		63
	26			61		63
	27			61		63
	28			61		63
	29			61		63
	30			61		63
	31			61		63
	32			61		63
	33			61		63

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

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

EPA Reg. No.

D

- 11 -

CODES FOR COLUMN 8							
		1 POUN 12 GALLO 13 QUAR 14 PINTS 15 OUNC 28 OUNC	DNS TS ES, LIQUID	30 GRAMS 40 KILOGRAMS 41 LITERS 46 SPIRALS 47 PACKETS 50 OTHER (<i>Specify:</i>)		
L I N E	6 O How much was applied per acre per application?	R 7 What was the total amount applied per application?	8 [Enter unit code from above.]	9 What percent of the rows were covered? 100 All Rows 50 Every Other Row Other	10 How many acres were treated with this product? [Include bearing acres only.]	11 How many times was it applied?	
	65	73	CODE	[Enter percent covered.] 75	BEARING ACRES	NUMBER 79	
16	·	·	74	75	·	79	
17	65 	73 ·	74	75		79	
18	65 	73 ·	74	75		79	
19	65 	73 ·	74	75		79	
20	65 	73	74	75	77	79	
21	65 ·		74	75	77	79	
22	65 	73	74	75	77	79	
23	65 	73	74	75	77	79	
24	65 	73 ·	74	75		79	
25	65 	73 ·	74	75		79	
26	65 	73 ·	74	75		79	
27	65 	73 ·	74	75		79	
28	65 	73 ·	74	75		79	
29	65 	73 ·	74	75		79	
30	65 	73 ·	74	75		79	
31	65 	73	74	75		79	
32	65 	73	74	75	77	79	
33	65 ·	73	74	75		79	

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

 Pesticide Type
 Trade Name
 Form Purchased

 Line No.
 (Herbicide, Insecticide, Fungicide, etc.)
 and Formulation
 (Liquid or Dry)
 EPA No.

D

NOTES:

PEST MANAGEMENT PRACTICES

- 13 -

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 PEST	ICIDE APPLICATIONS reported in Section B, o	column 5 on page	6?]
	YES - [Continue.]	No - [Go to item 4.]		
				CODE
1.	Was weather data used to assist in when to make pesticide applications	determining either the need or s?	YES = 1	600
2.	Were any biological pesticides such insect growth regulators (<i>Courier, ir</i> natural/biological based products sp		YES = 1	601
3.	Were pesticides with different mech mixed for the primary purpose of ke resistant to pesticides?		YES = 1	602
4.	In 2017, 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. (<i>Enter code 1 and go to item 5.</i>) By conducting general observations while performing routine tasks. (<i>Enter code 2 and go to item 7.</i>) The fruit acres were not scouted. (<i>Enter code 3 and go to item 10.</i>)]	608
5.	Was an established scouting proces recording counts, insect traps, etc.)	ss used (s <i>ystemic sampling,</i> on any fruit acres?	YES = 1	609
6.	Was scouting for pests done on the	se fruit acres due to		
	a. a pest advisory warning?		YES = 1	610
	b. a pest development model?		YES = 1	611

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PEST MANAGEMENT PRACTICES

1	2	
		[If column 1 is YES , ask]
		Who did the majority of the scouting for [column 1]—
		 Operator, partner or family member An employee
7. Were your fruit acres scouted for		3 Farm supply or chemical dealer4 Independent crop consultant or commercial scout
	YES = 1	CODE
a. weeds?	612	614
b. insects or mites?	615	617
c. disease?	618	620

		CODE
8.	Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases?	623
9.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	624
10.	Was field mapping data used for making pest management decisions? YES = 1	625
11.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	626
12.	Were crop residues (<i>including drops, rotting fruit and/or debris</i>) removed to manage pests?	627
13.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	629
14.	Were any beneficial organisms (<i>insects, nematodes, fungi</i>) applied or released to manage pests?	636
15.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any fruit acres?	637
16.	Were any fruit acres cultivated for weed control during the growing season?	640
17.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any fruit acres?	642
18.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	643
19.	Were any fruit acres irrigated for the 2017 crops? YES = 1	644
	a. [If item 19 is YES, ask]	
	Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?	645
	COMPLETION CODE for COMPLETION CODE for	

COMPLETION CODE for			COMPLETION CODE for				
PESTICIDE APPLICATIONS			PEST MANAGEMENT PRACTICES				
1 Incomp/R 3 Valid Zero	300		1 Incomp/R	500			

Ε

Ε

NOTES:

CONCLUSION

SURVEY RESULTS

1	To receive the complete results of this survey on the release date, go to	CODE
1.	www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date?	9990
	[Thank the respondent, then review this questionnaire.]	
EN	DING TIME [<i>MILITARY</i>]	005
		OFFICE USE TIME IN HOURS
RE	CORD USE	CODE
	Did respondent use operation records to report pesticide data?	064

SUPPLEMENT USE

Record the total number of supplements used to complete this interview.		
	068	
Pesticide Supplements.		

	9910	9911	
Reported by:	M M D D Y Y	Telephone:	

				OFFICE US	SE			
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
Res	sponse	Respo	ondent	Mod	e	Enum.		POID
1-Comp 2-R 3-Inac	9901	1-Op/Mgr 2-Sp 3-Acct/Bkpr	9902	2-PATI (Tel) 3-PAPI (Face-to- Face)	9903	9998	9989	
4-Office Hold		4-Partner 9-Other					Eval.	Change
							9900	9985