



2011 FRUIT CHEMICAL USE SURVEY



NATIONAL AGRICULTURAL STATISTICS SERVICE

US Version

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VERSION	ID	SUBTRACT
01	_____	_____

CONTACT RECORD		
DATE	TIME	NOTES

INTRODUCTION:
[Introduce yourself, and ask for the operator. Rephrase in your own words.]

We are collecting information on chemical use and need your help to make the information as accurate as possible. Authority for collection of information on the Fruit Chemical Use Survey is Title 7, Section 2204 of the U.S. Code. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept **confidential** and used only for statistical purposes. Response is **voluntary**.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME [MILITARY].

004	_____
-----	-------

Name _____
Address _____
Phone (____) _____

[Check if name and address are verified]

[Read or show label to respondent to verify the name(s) and spelling. Make corrections or additions on label.]

- During 2011, 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 3.] **NO** - [Continue.]
- During 2011, 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 3.] **NO** - [Continue.]
- During 2011, 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 3.] **NO** - [Continue.]
- During 2011, did this operation have any fruit acres which were operated by a **management firm**?
 YES - [Go to item 1, page 3.] **NO** - [Go to page 2.]

CHANGE IN OPERATOR

[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 Conclusion, page 16.]*

YES - *[Enter code 1, complete name and address information below for new operator, then go to Conclusion, page 16.]*

CODE

023

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

[ENUMERATOR NOTE: *If the operation on the face page was in business part of the 2011 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.*]

SCREENING

1. Did this operation grow any bearing acres of target fruit(s) during the 2011 crop year? (**Include** crops grown but abandoned or lost. Refer to list on page 4, **TARGET CROPS & CODES**.)

- YES** - [Go to item 2.]
- NO** - [Write notes explaining situation and conclude interview.]

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

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 _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

TARGET CROPS & CODES

<u>FLORIDA</u>					<u>OREGON</u>	
320	Grapefruit		<u>NEW JERSEY</u>		301	Apples
335	Oranges, All		309	Blueberries	307	Blackberries
346	Tangelos		340	Peaches	309	Blueberries
349	Tangerines				312	Cherries, Sweet
					341	Pears
					345	Raspberries
<u>GEORGIA</u>			<u>NEW YORK</u>			
309	Blueberries		301	Apples		
340	Peaches		314	Cherries, Tart		
			324	Grapes, All		
<u>MICHIGAN</u>					<u>SOUTH CAROLINA</u>	
301	Apples				340	Peaches
309	Blueberries					
<u>NORTH CAROLINA</u>						
312	Cherries, Sweet		301	Apples		
314	Cherries, Tart		309	Blueberries	320	Grapefruit
340	Peaches				340	Peaches

ACRES OPERATED

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

1. How many acres does this operation---

ACRES

a. Own? +

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

900		. ____
-----	--	--------

a. Does this include the farmstead, all cropland, woodland, pasture land, 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, including land in hay, summer fallow, cropland idle, cropland used for pasture and cropland in government programs?

802		. ____
-----	--	--------

4. Of the total acres operated, how many acres are in fruit?
(**Include** both target and non-target acres as well as bearing and non-bearing acreage in trees, vineyards and bushes.)

803		. ____
-----	--	--------

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 (2010) harvest, did you use **herbicides** on any of your bearing fruit acreage?..... **YES** **NO**
- 2. Since last year's (2010) harvest, did you use **insecticides, nematocides or mitocides** on any of your bearing fruit acreage?..... **YES** **NO**
- 3. Since last year's (2010) harvest, did you use any **fungicides or bactericides** on any of your bearing fruit acreage?..... **YES** **NO**
- 4. Since last year's (2010) 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?..... **YES** **NO**

[**ENUMERATOR NOTE:** *If ALL items 1-4 are NO, go to Section E, page 14; else continue.*]

PESTICIDE APPLICATIONS

[ENUMERATOR NOTE: *If pesticides were reported in Section B, Column 6, 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 2011 crop year to each of the **target fruit crops** you grew. **Let's start with the first application to your [crop] since the 2010 crop year harvest.**

[Complete the table for all chemical applications to the target fruit. Use supplemental tables if necessary.]

(**Include** herbicides, insecticides, nematocides, 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	001	LINE 99	399
	1	2	3	4	5
L I N E			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	CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	[If tank mix, enter line number of first product in mix.]
			61		63
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.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

PESTICIDE APPLICATIONS

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 (<i>Specify: _____</i>)

LINE	6	OR	7	8	9	10	11	
	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	77	79
02	65		73		74	75	77	79
03	65		73		74	75	77	79
04	65		73		74	75	77	79
05	65		73		74	75	77	79
06	65		73		74	75	77	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	77	79
11	65		73		74	75	77	79
12	65		73		74	75	77	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.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

PESTICIDE APPLICATIONS

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L I N E	6	OR	7	8	9	10	11	
	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	
16	65		73		74	75	77	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.	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 (<i>Specify: _____</i>)

L I N E	6	OR	7	8	9	10	11
	How much was applied per acre per application?		What was the total amount applied per application?	[Enter unit code from above.] CODE	What percent of the rows were covered? 100 All Rows 50 Every Other Row --- Other [Enter percent covered.]	How many acres were treated with this product? [Include bearing acres only.] BEARING ACRES	How many times was it applied? NUMBER
34	65		73	74	75	77	79
35	65		73	74	75	77	79
36	65		73	74	75	77	79
37	65		73	74	75	77	79
38	65		73	74	75	77	79
39	65		73	74	75	77	79
40	65		73	74	75	77	79
41	65		73	74	75	77	79
42	65		73	74	75	77	79
43	65		73	74	75	77	79
44	65		73	74	75	77	79
45	65		73	74	75	77	79
46	65		73	74	75	77	79
47	65		73	74	75	77	79
48	65		73	74	75	77	79
49	65		73	74	75	77	79
50	65		73	74	75	77	79

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

Line No.	Pesticide Type <i>(Herbicide, Insecticide, Fungicide, etc.)</i>	Trade Name and Formulation	Form Purchased <i>(Liquid or Dry)</i>	EPA Reg. No.
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

[Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section B, column 6 on page 6?]

YES - [Continue.] **No** - [Go to item 4.]

		CODE
1. Was weather data used to assist in determining either the need or when to make pesticide applications?	YES = 1	600 _____
2. Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators (<i>Courier, intrepid, etc.</i>), neem or other natural/biological based products sprayed or applied to manage pests?	YES = 1	601 _____
3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?	YES = 1	602 _____
4. In 2011, how were your fruit acres primarily scouted for insects, weeds, diseases and/or beneficial organisms?		
1 By deliberately going to the fruit acres specifically for scouting activities. (<i>Enter code 1 and go to item 5.</i>) 2 By conducting general observations while performing routine tasks. (<i>Enter code 2 and go to item 7.</i>) 3 The fruit acres were not scouted. (<i>Enter code 3 and go to item 10.</i>)		608 _____
5. Was an established scouting process used (<i>systemic sampling, recording counts, insect traps, etc.</i>) on any fruit acres?	YES = 1	609 _____
6. Was scouting for pests done on these fruit acres due to---		
a. a pest advisory warning?	YES = 1	610 _____
b. a pest development model?	YES = 1	611 _____

1		2 <i>[If column 1 is YES, ask---]</i> Who did the majority of the scouting for [column 1]—
7. Were your fruit acres scouted for ---	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 YES = 1
9.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	624 YES = 1
10.	Was field mapping data used for making pest management decisions?	625 YES = 1
11.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	626 YES = 1
12.	Were crop residues (<i>including drops, rotting fruit and/or debris</i>) removed to manage pests?	627 YES = 1
13.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	629 YES = 1
14.	Were any beneficial organisms (<i>insects, nematodes, fungi</i>) applied or released to manage pests?	636 YES = 1
15.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any fruit acres?	637 YES = 1
16.	Were any fruit acres cultivated for weed control during the growing season?	640 YES = 1
17.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any fruit acres?	642 YES = 1
18.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	643 YES = 1
19.	Were any fruit acres irrigated for the 2011 crops?	644 YES = 1
	a. <i>[If item 19 is YES, ask--]</i>	
	Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?	645 YES = 1

COMPLETION CODE for PESTICIDE APPLICATIONS	
1 Incomp/R	300
3 Valid Zero	

COMPLETION CODE for PEST MANAGEMENT PRACTICES	
1 Incomp/R	500

CONCLUSION

SURVEY RESULTS

1. To receive the complete results of this survey on the release date, go to www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date? **CODE** 099
YES = 1

[Thank the respondent, then review this questionnaire.]

ENDING TIME [MILITARY]. **005**

**OFFICE USE
TIME IN HOURS**

006

RECORD USE

Did respondent use operation records to report pesticide data? **CODE** 064
YES = 1

SUPPLEMENT USE

Record the total number of supplements used to complete this interview. **NUMBER**

Pesticide Supplements. **068**

		068
--	--	-----

Reported by: _____ Telephone No. (____) _____

Response		Respondent		Mode		Enum	Eval	Date MM DD YY	R Unit	Duplication Adjustor	Optional
1-Comp	9901	1- Op/Mgr	9902	2-Tel	9903	0098	0100	9910	0921	0922	0002
2-R		2-Sp		3-Face-to -					Office Use for POID		
3-Inac		3-Acct/Bkpr		Face					0789		
4-Office Hold		4-Partner						__ __ 11	- - - - -		
9-Other											
S/E Name											

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