



# NURSERY AND FLORICULTURE CHEMICAL USE SURVEY 2009



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

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<b>VERSION</b> 01	POID _____	SUBTRACT ___	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	NOTES

[Name and address verified and updated if necessary.]

**INTRODUCTION:**

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

We are collecting information on chemical applications for floriculture and nursery production in 2009 and need your help to collect complete and accurate data. Authority for collection of information on the Nursery and Floriculture Chemical Use Survey is Title 7, Section 2204 of the U.S. Code. This information will be used to compile and publish estimates on chemical use in floriculture and nursery production. Response to this survey is confidential and voluntary.

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

1. **Were your total gross sales of floriculture crops greater than \$10,000 in 2009?**  
 YES                       NO
2. **Were your total gross sales of nursery crops and/or Christmas trees greater than \$10,000 in 2009?**  
 YES                       NO

[ENUMERATOR NOTE: If items 1 and 2 are NO, conclude the interview.]

3. [Complete PARTNER boxes below only if the operator is in a partnership.]

<b>POID</b> _____	<b>POID</b> _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY                      STATE              ZIP              PHONE NUMBER	CITY                      STATE              ZIP              PHONE NUMBER
<b>POID</b> _____	<b>POID</b> _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY                      STATE              ZIP              PHONE NUMBER	CITY                      STATE              ZIP              PHONE NUMBER

## CHEMICAL APPLICATIONS

These questions are about pesticide and chemical (*excluding fertilizer*) applications.

1. In 2009, for your floriculture and/or nursery operation, were any insecticides, herbicides, fungicides, nematicides, miticides, growth regulators, rooting compounds, soil fumigants or other chemicals applied?

YES – [Complete table below.]       NO – [Go to item 1 on page 18.]

**[ENUMERATOR NOTE:** *In order to combine applications (column 10 greater than 1), the product/formulation, to what and where mostly applied, areas treated in size, amount applied, rate of application, method of application, and who made the application, **MUST** all be the same.]*

<b>OFFICE USE</b>	1 Incomplete	314	<b>OFFICE USE</b>		<b>TABLE</b>	101
<b>EDIT TABLE</b>	3 Valid Zero		<b>LINES IN TABLE</b>	<b>T-TYPE 1</b>	<b>001</b>	<b>LINE 99</b>

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

**LOCATION CODES FOR COLUMN 5**

NURSERY	FLORICULTURE	
1 Transplants for commercial vegetable and strawberry production	13 Cut flowers	1 Greenhouse ( <i>enclosed</i> )
2 Propagative nursery material or lining-out stock	14 Flowering plants ( <i>potted</i> )	2 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
3 Broadleaf evergreens	15 Bedding plants ( <i>flats, potted, hanging</i> )	3 Natural Shade Area ( <i>palm, citrus, etc.</i> )
4 Coniferous evergreens	16 Foliage plants ( <i>potted or hanging</i> )	4 In The Open Production Area
5 Deciduous shade trees	17 Propagative floriculture material	5 Perimeter ( <i>non-production areas</i> )
6 Deciduous flowering trees	18 Cut cultivated greens	
7 Deciduous shrubs	19 Herbaceous perennials ( <i>potted</i> )	
8 Fruit and nut plants	20 Non-production area	
9 Christmas trees		
10 Palms		
11 Ornamental grasses		
12 Other woody ornamentals and vines		
20 Non-production area		

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	01	301		302	303	304
	02	301		302	303	304
	03	301		302	303	304
	04	301		302	303	304
	05	301		302	303	304
	06	301		302	303	304
	07	301		302	303	304
	08	301		302	303	304
	09	301		302	303	304
	10	301		302	303	304
	11	301		302	303	304
	12	301		302	303	304

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

<b>Line No.</b>	<b>Pesticide Type</b> <small>(Herbicide, Insecticide, Fungicide, etc.)</small>	<b>Tradename and Formulation</b>	<b>Form Purchased</b> <small>(Liquid or Dry)</small>	<b>EPA No.</b>

## CHEMICAL APPLICATIONS

UNIT CODES FOR COLUMN 9		METHOD CODES FOR COLUMN 11		APPLICATOR CODES FOR COLUMN 12	
1 Pounds	28 Dry Ounces	1 Hand held back pack sprayer	1 Licensed operator/employee pesticide applicator		
12 Gallons	30 Grams	2 Hand held wand/gun/boom from power hydraulic sprayers	2 Unlicensed operator/employee under the direction of licensed applicator		
13 Quarts	40 Kilograms	3 Hand held granular shakers	3 Hired custom applicator		
14 Pints	41 Liters	4 Hand held granular rotary applicator (whirly bird, belly grinder)	(Not an employee of operation)		
15 Liquid Ounces	42 Milliliters	5 Hand held foggers	4 Other, (Specify: _____)		
20 Teaspoons	50 Other, bags, WSP, etc.	6 Dusting			
21 Tablespoons	(Specify unit & weight _____)	7 Overhead rail sprayers (track sprayers)			
		8 Root ball/container/cutting/flower dip			
		9 Drench			
		10 Stationary fogger, aerosols, misters, electrostatic sprayers, smokers			
		11 Tractor powered boom sprayer			
		12 Tractor powered air blast or mister			
		13 Aerial application			
		14 Chemigation			
		15 Machine injection, branded, broadcast, knifed in			
		16 Other, (Specify _____)			

**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per acre OR per 1,000 square feet per application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR	CODE	NUMBER	CODE	CODE
	305	306	307	308	309	310	311	312	313
01	_____	_____	_____	_____	_____	_____	_____	_____	_____
02	_____	_____	_____	_____	_____	_____	_____	_____	_____
03	_____	_____	_____	_____	_____	_____	_____	_____	_____
04	_____	_____	_____	_____	_____	_____	_____	_____	_____
05	_____	_____	_____	_____	_____	_____	_____	_____	_____
06	_____	_____	_____	_____	_____	_____	_____	_____	_____
07	_____	_____	_____	_____	_____	_____	_____	_____	_____
08	_____	_____	_____	_____	_____	_____	_____	_____	_____
09	_____	_____	_____	_____	_____	_____	_____	_____	_____
10	_____	_____	_____	_____	_____	_____	_____	_____	_____
11	_____	_____	_____	_____	_____	_____	_____	_____	_____
12	_____	_____	_____	_____	_____	_____	_____	_____	_____

**NOTES AND CALCULATIONS:**

# CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

**LOCATION CODES FOR COLUMN 5**

<p style="text-align: center;"><b>NURSERY</b></p> <p>1 Transplants for commercial vegetable and strawberry production</p> <p>2 Propagative nursery material or lining-out stock</p> <p>3 Broadleaf evergreens</p> <p>4 Coniferous evergreens</p> <p>5 Deciduous shade trees</p> <p>6 Deciduous flowering trees</p> <p>7 Deciduous shrubs</p> <p>8 Fruit and nut plants</p> <p>9 Christmas trees</p> <p>10 Palms</p> <p>11 Ornamental grasses</p> <p>12 Other woody ornamentals and vines</p> <p>20 Non-production area</p>	<p style="text-align: center;"><b>FLORICULTURE</b></p> <p>13 Cut flowers</p> <p>14 Flowering plants (<i>potted</i>)</p> <p>15 Bedding plants (<i>flats, potted, hanging</i>)</p> <p>16 Foliage plants (<i>potted or hanging</i>)</p> <p>17 Propagative floriculture material</p> <p>18 Cut cultivated greens</p> <p>19 Herbaceous perennials (<i>potted</i>)</p> <p>20 Non-production area</p>
--	--

<p>1 Greenhouse (<i>enclosed</i>)</p> <p>2 Shade Structure (<i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i>)</p> <p>3 Natural Shade Area (<i>palm, citrus, etc.</i>)</p> <p>4 In The Open Production Area</p> <p>5 Perimeter (<i>non-production areas</i>)</p>
---

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	13	301		302	303	304
	14	301		302	303	304
	15	301		302	303	304
	16	301		302	303	304
	17	301		302	303	304
	18	301		302	303	304
	19	301		302	303	304
	20	301		302	303	304
	21	301		302	303	304
	22	301		302	303	304
	23	301		302	303	304

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

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

# CHEMICAL APPLICATIONS

**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
5	Hand held foggers
6	Dusting
7	Overhead rail sprayers (track sprayers)
8	Root ball/container/cutting/flower dip
9	Drench
10	Stationary fogger, aerosols, misters, electrostatic sprayers, smokers
11	Tractor powered boom sprayer
12	Tractor powered air blast or mister
13	Aerial application
14	Chemigation
15	Machine injection, branded, broadcast, knifed in
16	Other, (Specify _____)

1	Licensed operator/employee pesticide applicator
2	Unlicensed operator/employee under the direction of licensed applicator
3	Hired custom applicator (Not an employee of operation)
4	Other, (Specify: _____)

**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per 1,000 square feet per application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR RATE PER 1,000 SQUARE FEET	CODE	NUMBER	CODE	CODE
13	305	306	307	308	309	310	311	312	313
14	305	306	307	308	309	310	311	312	313
15	305	306	307	308	309	310	311	312	313
16	305	306	307	308	309	310	311	312	313
17	305	306	307	308	309	310	311	312	313
18	305	306	307	308	309	310	311	312	313
19	305	306	307	308	309	310	311	312	313
20	305	306	307	308	309	310	311	312	313
21	305	306	307	308	309	310	311	312	313
22	305	306	307	308	309	310	311	312	313
23	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

### PRODUCTION CATEGORY CODES FOR COLUMN 4

NURSERY		FLORICULTURE	
1	Transplants for commercial vegetable and strawberry production	13	Cut flowers
2	Propagative nursery material or lining-out stock	14	Flowering plants ( <i>potted</i> )
3	Broadleaf evergreens	15	Bedding plants ( <i>flats, potted, hanging</i> )
4	Coniferous evergreens	16	Foliage plants ( <i>potted or hanging</i> )
5	Deciduous shade trees	17	Propagative floriculture material
6	Deciduous flowering trees	18	Cut cultivated greens
7	Deciduous shrubs	19	Herbaceous perennials ( <i>potted</i> )
8	Fruit and nut plants	20	Non-production area
9	Christmas trees		
10	Palms		
11	Ornamental grasses		
12	Other woody ornamentals and vines		
20	Non-production area		

### LOCATION CODES FOR COLUMN 5

1	Greenhouse ( <i>enclosed</i> )
2	Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
3	Natural Shade Area ( <i>palm, citrus, etc.</i> )
4	In The Open Production Area
5	Perimeter ( <i>non-production areas</i> )

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
CHEMICAL PRODUCT NAME						
	24	301		302	303	304
	25	301		302	303	304
	26	301		302	303	304
	27	301		302	303	304
	28	301		302	303	304
	29	301		302	303	304
	30	301		302	303	304
	31	301		302	303	304
	32	301		302	303	304
	33	301		302	303	304
	34	301		302	303	304

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

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

## CHEMICAL APPLICATIONS

**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
5	Hand held foggers
6	Dusting
7	Overhead rail sprayers (track sprayers)
8	Root ball/container/cutting/flower dip
9	Drench
10	Stationary fogger, aerosols, misters, electrostatic sprayers, smokers
11	Tractor powered boom sprayer
12	Tractor powered air blast or mister
13	Aerial application
14	Chemigation
15	Machine injection, branded, broadcast, knifed in
16	Other, (Specify _____)

1	Licensed operator/employee pesticide applicator
2	Unlicensed operator/employee under the direction of licensed applicator
3	Hired custom applicator (Not an employee of operation)
4	Other, (Specify: _____)

**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per 1,000 square feet per Application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR RATE PER 1,000 SQUARE FEET	CODE	NUMBER	CODE	CODE
24	305	306	307	308	309	310	311	312	313
25	305	306	307	308	309	310	311	312	313
26	305	306	307	308	309	310	311	312	313
27	305	306	307	308	309	310	311	312	313
28	305	306	307	308	309	310	311	312	313
29	305	306	307	308	309	310	311	312	313
30	305	306	307	308	309	310	311	312	313
31	305	306	307	308	309	310	311	312	313
32	305	306	307	308	309	310	311	312	313
33	305	306	307	308	309	310	311	312	313
34	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

NURSERY		FLORICULTURE	
1	Transplants for commercial vegetable and strawberry production	13	Cut flowers
2	Propagative nursery material or lining-out stock	14	Flowering plants ( <i>potted</i> )
3	Broadleaf evergreens	15	Bedding plants ( <i>flats, potted, hanging</i> )
4	Coniferous evergreens	16	Foliage plants ( <i>potted or hanging</i> )
5	Deciduous shade trees	17	Propagative floriculture material
6	Deciduous flowering trees	18	Cut cultivated greens
7	Deciduous shrubs	19	Herbaceous perennials ( <i>potted</i> )
8	Fruit and nut plants	20	Non-production area
9	Christmas trees		
10	Palms		
11	Ornamental grasses		
12	Other woody ornamentals and vines		
20	Non-production area		

**LOCATION CODES FOR COLUMN 5**

1	Greenhouse ( <i>enclosed</i> )
2	Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
3	Natural Shade Area ( <i>palm, citrus, etc.</i> )
4	In The Open Production Area
5	Perimeter ( <i>non-production areas</i> )

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	35	301		302	303	304
	36	301		302	303	304
	37	301		302	303	304
	38	301		302	303	304
	39	301		302	303	304
	40	301		302	303	304
	41	301		302	303	304
	42	301		302	303	304
	43	301		302	303	304
	44	301		302	303	304
	45	301		302	303	304

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

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

## CHEMICAL APPLICATIONS



**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
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**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per 1,000 square feet per application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR RATE PER 1,000 SQUARE FEET	CODE	NUMBER	CODE	CODE
35	305	306	307	308	309	310	311	312	313
36	305	306	307	308	309	310	311	312	313
37	305	306	307	308	309	310	311	312	313
38	305	306	307	308	309	310	311	312	313
39	305	306	307	308	309	310	311	312	313
40	305	306	307	308	309	310	311	312	313
41	305	306	307	308	309	310	311	312	313
42	305	306	307	308	309	310	311	312	313
43	305	306	307	308	309	310	311	312	313
44	305	306	307	308	309	310	311	312	313
45	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

NURSERY	FLORICULTURE
1 Transplants for commercial vegetable and strawberry production	13 Cut flowers
2 Propagative nursery material or lining-out stock	14 Flowering plants ( <i>potted</i> )
3 Broadleaf evergreens	15 Bedding plants ( <i>flats, potted, hanging</i> )
4 Coniferous evergreens	16 Foliage plants ( <i>potted or hanging</i> )
5 Deciduous shade trees	17 Propagative floriculture material
6 Deciduous flowering trees	18 Cut cultivated greens
7 Deciduous shrubs	19 Herbaceous perennials ( <i>potted</i> )
8 Fruit and nut plants	20 Non-production area
9 Christmas trees	
10 Palms	
11 Ornamental grasses	
12 Other woody ornamentals and vines	
20 Non-production area	

**LOCATION CODES FOR COLUMN 5**

1 Greenhouse ( <i>enclosed</i> )
2 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
3 Natural Shade Area ( <i>palm, citrus, etc.</i> )
4 In The Open Production Area
5 Perimeter ( <i>non-production areas</i> )

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	46	301		302	303	304
	47	301		302	303	304
	48	301		302	303	304
	49	301		302	303	304
	50	301		302	303	304
	51	301		302	303	304
	52	301		302	303	304
	53	301		302	303	304
	54	301		302	303	304
	55	301		302	303	304
	56	301		302	303	304

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

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

## CHEMICAL APPLICATIONS

**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
5	Hand held foggers
6	Dusting
7	Overhead rail sprayers (track sprayers)
8	Root ball/container/cutting/flower dip
9	Drench
10	Stationary fogger, aerosols, misters, electrostatic sprayers, smokers
11	Tractor powered boom sprayer
12	Tractor powered air blast or mister
13	Aerial application
14	Chemigation
15	Machine injection, branded, broadcast, knifed in
16	Other, (Specify _____)

1	Licensed operator/employee pesticide applicator
2	Unlicensed operator/employee under the direction of licensed applicator
3	Hired custom applicator (Not an employee of operation)
4	Other, (Specify: _____)

**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per 1,000 square feet per application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR RATE PER 1,000 SQUARE FEET	CODE	NUMBER	CODE	CODE
46	305	306	307	308	309	310	311	312	313
47	305	306	307	308	309	310	311	312	313
48	305	306	307	308	309	310	311	312	313
49	305	306	307	308	309	310	311	312	313
50	305	306	307	308	309	310	311	312	313
51	305	306	307	308	309	310	311	312	313
52	305	306	307	308	309	310	311	312	313
53	305	306	307	308	309	310	311	312	313
54	305	306	307	308	309	310	311	312	313
55	305	306	307	308	309	310	311	312	313
56	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

NURSERY		FLORICULTURE	
1	Transplants for commercial vegetable and strawberry production	13	Cut flowers
2	Propagative nursery material or lining-out stock	14	Flowering plants ( <i>potted</i> )
3	Broadleaf evergreens	15	Bedding plants ( <i>flats, potted, hanging</i> )
4	Coniferous evergreens	16	Foliage plants ( <i>potted or hanging</i> )
5	Deciduous shade trees	17	Propagative floriculture material
6	Deciduous flowering trees	18	Cut cultivated greens
7	Deciduous shrubs	19	Herbaceous perennials ( <i>potted</i> )
8	Fruit and nut plants	20	Non-production area
9	Christmas trees		
10	Palms		
11	Ornamental grasses		
12	Other woody ornamentals and vines		
20	Non-production area		

**LOCATION CODES FOR COLUMN 5**

1	Greenhouse ( <i>enclosed</i> )
2	Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
3	Natural Shade Area ( <i>palm, citrus, etc.</i> )
4	In The Open Production Area
5	Perimeter ( <i>non-production areas</i> )

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	57	301		302	303	304
	58	301		302	303	304
	59	301		302	303	304
	60	301		302	303	304
	61	301		302	303	304
	62	301		302	303	304
	63	301		302	303	304
	64	301		302	303	304
	65	301		302	303	304
	66	301		302	303	304
	67	301		302	303	304

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

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

## CHEMICAL APPLICATIONS

**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
5	Hand held foggers
6	Dusting
7	Overhead rail sprayers (track sprayers)
8	Root ball/container/cutting/flower dip
9	Drench
10	Stationary fogger, aerosols, misters, electrostatic sprayers, smokers
11	Tractor powered boom sprayer
12	Tractor powered air blast or mister
13	Aerial application
14	Chemigation
15	Machine injection, branded, broadcast, knifed in
16	Other, (Specify _____)

1	Licensed operator/employee pesticide applicator
2	Unlicensed operator/employee under the direction of licensed applicator
3	Hired custom applicator (Not an employee of operation)
4	Other, (Specify: _____)

**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

LINE	6 How much area was treated?		7 What was the total amount applied per application?	8 How much was applied per 1,000 square feet per application?		9 UNIT [Enter code from above.]	10 How many times was this applied?	11 How was this product applied? [Enter code from above.]	12 Who made the application(s)? [Enter code from above.]
	ACRES	OR SQUARE FEET		RATE PER ACRE	OR RATE PER 1,000 SQUARE FEET	CODE	NUMBER	CODE	CODE
57	305	306	307	308	309	310	311	312	313
58	305	306	307	308	309	310	311	312	313
59	305	306	307	308	309	310	311	312	313
60	305	306	307	308	309	310	311	312	313
61	305	306	307	308	309	310	311	312	313
62	305	306	307	308	309	310	311	312	313
63	305	306	307	308	309	310	311	312	313
64	305	306	307	308	309	310	311	312	313
65	305	306	307	308	309	310	311	312	313
66	305	306	307	308	309	310	311	312	313
67	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

**LOCATION CODES FOR COLUMN 5**

<p style="text-align: center;"><b>NURSERY</b></p> <p>1 Transplants for commercial vegetable and strawberry production</p> <p>2 Propagative nursery material or lining-out stock</p> <p>3 Broadleaf evergreens</p> <p>4 Coniferous evergreens</p> <p>5 Deciduous shade trees</p> <p>6 Deciduous flowering trees</p> <p>7 Deciduous shrubs</p> <p>8 Fruit and nut plants</p> <p>9 Christmas trees</p> <p>10 Palms</p> <p>11 Ornamental grasses</p> <p>12 Other woody ornamentals and vines</p> <p>20 Non-production area</p>	<p style="text-align: center;"><b>FLORICULTURE</b></p> <p>13 Cut flowers</p> <p>14 Flowering plants (<i>potted</i>)</p> <p>15 Bedding plants (<i>flats, potted, hanging</i>)</p> <p>16 Foliage plants (<i>potted or hanging</i>)</p> <p>17 Propagative floriculture material</p> <p>18 Cut cultivated greens</p> <p>19 Herbaceous perennials (<i>potted</i>)</p> <p>20 Non-production area</p>
--	--

<p>1 Greenhouse (<i>enclosed</i>)</p> <p>2 Shade Structure (<i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i>)</p> <p>3 Natural Shade Area (<i>palm, citrus, etc.</i>)</p> <p>4 In The Open Production Area</p> <p>5 Perimeter (<i>non-production areas</i>)</p>
---

	L I N E	1  What products were applied?  [Enter product code.]	2  Was this product bought in liquid or dry form?  [Enter L or D.]	3  Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	4  What was this chemical mostly applied to? [Enter code from above.]  CODE	5  Where was this product mostly applied? [Enter code from above.]  CODE
	68	301		302	303	304
	69	301		302	303	304
	70	301		302	303	304
	71	301		302	303	304
	72	301		302	303	304
	73	301		302	303	304
	74	301		302	303	304
	75	301		302	303	304
	76	301		302	303	304
	77	301		302	303	304
	78	301		302	303	304

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

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

## CHEMICAL APPLICATIONS

**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
14	Pints	41	Liters
15	Liquid Ounces	42	Milliliters
20	Teaspoons	50	Other, bags, WSP, etc.
21	Tablespoons		(Specify unit & weight _____)

1	Hand held back pack sprayer
2	Hand held wand/gun/boom from power hydraulic sprayers
3	Hand held granular shakers
4	Hand held granular rotary applicator (whirly bird, belly grinder)
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7	Overhead rail sprayers (track sprayers)
8	Root ball/container/cutting/flower dip
9	Drench
10	Stationary fogger, aerosols, misters, electrostatic sprayers, smokers
11	Tractor powered boom sprayer
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**[ENUMERATOR NOTE: CHEMICAL APPLICATIONS –when completing columns 6, 7 & 8 complete either columns 6 and 7 or columns 6 and 8 or columns 7 and 8.]**

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70	305	306	307	308	309	310	311	312	313
71	305	306	307	308	309	310	311	312	313
72	305	306	307	308	309	310	311	312	313
73	305	306	307	308	309	310	311	312	313
74	305	306	307	308	309	310	311	312	313
75	305	306	307	308	309	310	311	312	313
76	305	306	307	308	309	310	311	312	313
77	305	306	307	308	309	310	311	312	313
78	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 4**

**LOCATION CODES FOR COLUMN 5**

NURSERY	FLORICULTURE
1 Transplants for commercial vegetable and strawberry production	13 Cut flowers
2 Propagative nursery material or lining-out stock	14 Flowering plants ( <i>potted</i> )
3 Broadleaf evergreens	15 Bedding plants ( <i>flats, potted, hanging</i> )
4 Coniferous evergreens	16 Foliage plants ( <i>potted or hanging</i> )
5 Deciduous shade trees	17 Propagative floriculture material
6 Deciduous flowering trees	18 Cut cultivated greens
7 Deciduous shrubs	19 Herbaceous perennials ( <i>potted</i> )
8 Fruit and nut plants	20 Non-production area
9 Christmas trees	
10 Palms	
11 Ornamental grasses	
12 Other woody ornamentals and vines	
20 Non-production area	

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	80	301		302	303	304
	81	301		302	303	304
	82	301		302	303	304
	83	301		302	303	304
	84	301		302	303	304
	85	301		302	303	304
	86	301		302	303	304
	87	301		302	303	304
	88	301		302	303	304
	89	301		302	303	304

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_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

## CHEMICAL APPLICATIONS



**UNIT CODES FOR COLUMN 9**

**METHOD CODES FOR COLUMN 11**

**APPLICATOR CODES FOR COLUMN 12**

1	Pounds	28	Dry Ounces
12	Gallons	30	Grams
13	Quarts	40	Kilograms
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83	305	306	307	308	309	310	311	312	313
84	305	306	307	308	309	310	311	312	313
85	305	306	307	308	309	310	311	312	313
86	305	306	307	308	309	310	311	312	313
87	305	306	307	308	309	310	311	312	313
88	305	306	307	308	309	310	311	312	313
89	305	306	307	308	309	310	311	312	313

**NOTES AND CALCULATIONS:**

## PEST MANAGEMENT PRACTICES

T-TYPE <b>0</b>	TABLE <b>000</b>	LINE <b>00</b>
--------------------	---------------------	-------------------

**1. In 2009, did your operation scout or monitor for pests---**

- a. By conducting general observations while performing routine tasks? **CODE**
- |  |     |
|--|-----|
| <input type="checkbox"/> YES – [Enter code 1 then go to item 2.] <input type="checkbox"/> NO – [Continue with item 1b.]..... | 320 |
|--|-----|
- b. By deliberately going to the growing areas specifically for scouting activities? **CODE**
- |  |     |
|--|-----|
| <input type="checkbox"/> YES – [Enter code 1 then go to item 2.] <input type="checkbox"/> NO – [Continue with item 2c.]..... | 321 |
|--|-----|

**2. In 2009, did your operation---**

- a. keep electronic or written records on weed, insect or disease levels?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 323 |
|--|-----|
- b. use pheromones to monitor insects by trapping?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 328 |
|--|-----|
- c. detect the presence of weeds, insects, diseases or pathogens by---
- (i) soil analysis?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 324 |
|--|-----|
- (ii) plant tissue analysis?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 325 |
|--|-----|
- (iii) using trap indicator plants?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 326 |
|--|-----|
- (iv) inspecting incoming stock?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 327 |
|--|-----|
- (v) use of insect traps?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 355 |
|--|-----|
- d. use insect or disease resistant plant varieties?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 329 |
|--|-----|
- e. control weeds, insects or disease by---
- (i) using beneficial organisms (*insects, nematodes or fungi*)?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 330 |
|--|-----|
- (ii) using biological pesticides (*BotaniGard, Conserve, Gnatrol, Nemasys, etc.*)?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 331 |
|--|-----|
- (iii) using trap vegetation?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 332 |
|--|-----|
- (iv) using pheromones to disrupt insect mating?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 333 |
|--|-----|
- (v) using water management practices such as controlled drainage or treatment of retention water? (*Exclude chemigation.*)..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 334 |
|--|-----|
- (vi) pruning out or removing infected plants or plant parts?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 335 |
|--|-----|
- (vii) tilling, mowing, or burning of field or greenhouse borders, lanes, etc.?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 336 |
|--|-----|
- (viii) adjusting row spacing or direction?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 337 |
|--|-----|
- (ix) elevating plant?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 338 |
|--|-----|
- (x) adjusting plant density?..... **YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 339 |
|--|-----|
- (xi) use sterilized growing media?..... **NA = 4. YES = 1** **CODE**
- |  |     |
|--|-----|
|  | 340 |
|--|-----|

## PEST MANAGEMENT PRACTICES

**2. In 2009, did your operation---***(continued)*

e. control weeds, insect or diseases by---

- (xii) sanitizing benches or other platform devices between uses?..... NA = 4. .... YES = 1
- (xiii) sanitizing ground covers between uses?..... NA = 4. .... YES = 1
- (xiv) sanitizing containers between uses?..... NA = 4. .... YES = 1
- (xv) modifying temperature?..... NA = 4. .... YES = 1
- (xvi) modifying hothouse/greenhouse relative humidity?..... NA = 4. .... YES = 1
- (xvii) using greenhouse ventilation?..... NA = 4. .... YES = 1
- (xviii) using greenhouse screening?..... NA = 4. .... YES = 1
- (xix) using plant tissue dryness management such as minimizing overhead irrigation to reduce leaf wetness time?..... NA = 4. .... YES = 1
- (xx) utilizing ground covers, mulches or other physical barriers such as gravel, weed mats, etc.?..... NA = 4. .... YES = 1
- (xxi) use of insect traps?..... NA = 4. .... YES = 1

**CODE**

341
342
343
344
345
346
347
348
349
356
350
351

- f. rotate or tank mix pesticides (*use pesticides with different mechanisms of action*) for the primary purpose of keeping pests from becoming resistant to pesticides?..... YES = 1
- g. monitor weather data to assist in determining when to make pesticide application decisions?..... YES = 1

h. apply pesticides based **mostly** on---  
[Enter one code.].....

- |   |
|---|
| 1 PREVENTIVE SCHEDULE?  |
| 2 SCOUTING DATA COMPARED TO UNIVERSITY OR EXTENSION INFESTATION GUIDELINES? |
| 3 SCOUTING DATA AND YOUR ESTABLISHED THRESHOLDS?                            |
| 4 OTHER? (Specify: _____)   |

**CODE**

352
-----

**3. In 2009, where did your operation---**

a. obtain **most** of its pesticides---  
[Enter one code.].....

- |                         |
|-------------------------|
| CHEMICAL DEALER?        |
| CHEMICAL MANUFACTURER?  |
| OTHER? (Specify: _____) |

**CODE**

353
-----

b. **mostly** get recommendations for pest control or pesticide use---  
[Enter one code.].....

- |  |
|--|
| 1 FARM SUPPLY DEALER/CHEMICAL DEALER                                 |
| 2 UNIVERSITY/EXTENSION PERSONNEL/MATERIALS?                          |
| 3 COMMERCIAL SCOUTING SERVICE/CROP CONSULTANT/ PEST CONTROL ADVISOR? |
| 4 OTHER GROWERS/PRODUCERS?   |
| 5 PRODUCER ASSOCIATION/NEWSLETTER/ TRADE MAGAZINE?                   |
| 6 EMPLOYEE PEST ADVISOR?   |
| 7 CUSTOM APPLICATOR?   |
| 8 OTHER? (Specify: _____)  |

**CODE**

354
-----

**COMPLETION CODE for PEST MANAGEMENT**

1	Incomp/R	300
3	Valid zero	

## CONCLUSION

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1. **SURVEY RESULTS:** The information from USDA-NASS surveys is available at <http://www.nass.usda.gov/results>. The results will be available under the title **"Nursery and Floriculture Chemical Use Survey."** If you do not have Internet access please call 1-800-727-9540.

*[Thank the respondent then review this questionnaire.]*

	TOTAL ENUMERATION TIME	TOTAL TIME SPENT WITH OPERATOR or RESPONDENT
2. <b>Time spent collecting data----</b> .....	019	012

3. **SUPPLEMENTS USED**

*(Record the total number of chemical supplements used to complete this interview.)* .....

	NUMBER
014	

4. **ENUMERATOR NOTE:** *Please list names, title and contact information if other people were contacted for assistance in completing this questionnaire. Please record their name, address and phone number below.]*

**NAME/TITLE:** \_\_\_\_\_

**PHONE:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

Respondent's Name: \_\_\_\_\_ Telephone Number: \_\_\_\_\_ Date: \_\_\_\_\_

OFFICE USE										
Response	9901	Respondent	9902	Mode	9903	Enum.	Eval.	R. UNIT	Date MM DD YY	Office Use for POID
1-Comp 2-R 3-Inac 4-Office Hold		1-Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Oth		2-Tel  3-Face-to-Face		098	100	921	9910	789
										-----
										Dup Adj.
										Optional
										922
										002
S/E Name										

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 0535-0244. 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.