



# NURSERY AND FLORICULTURE CHEMICAL USE SURVEY 2009



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

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California Enterprise

<b>VERSION</b> 01	<b>POID</b> _____	<b>SUBTRACT</b> ___	<b>T-TYPE</b> 0	<b>TABLE</b> 000	<b>LINE</b> 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

# CALIFORNIA SCREENING

1. What ID (*pesticide permit number*) does this operation use for reporting pesticide applications on the target nursery and floriculture acres to the County Agricultural Commissioners? .....

COUNTY			NUMBER			

2. Is this ID used to report pesticide applications for any other operations?

- YES** - [Continue.]                       **NO** - [Go to item 3.]

a. What other operation(s) is this ID used to report for?

Name _____	Name _____
Address _____	Address _____
Phone (    ) _____	Phone (    ) _____

3. Does this operation use any **OTHER** ID's to report pesticide applications on the target nursery and floriculture acres to the County Agricultural Commissioners?

- YES** - [Continue.]                       **NO** - [Go to **CHEMICAL APPLICATIONS**, page 4.]

a. What are these other ID numbers? .....

COUNTY			NUMBER			

b. Do you use any of these ID's to report pesticide applications for any other operation(s)?

- YES** - [Continue.]                       **NO** - [Go to **CHEMICAL APPLICATIONS**, page 4.]

(i) What other operation(s) use this ID for reporting? [*Identify operation and ID.*]

Name _____	Name _____
Reporting ID _____	Reporting ID _____
Address _____	Address _____
Phone (    ) _____	Phone (    ) _____



## 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, nematocides, miticides, growth regulators, rooting compounds, soil fumigants or other chemicals applied?

YES – [Complete table below.]

NO – [Go to item 1 on page 18.]

<b>OFFICE USE EDIT TABLE</b>	1 Incomplete 3 Valid Zero	314	<b>OFFICE USE LINES IN TABLE</b>	T-TYPE 1	TABLE 001	LINE 99	101
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### PRODUCTION CATEGORY CODES FOR COLUMN 1

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 2

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  To what production category were chemicals mostly applied?  [Enter production code from above.]	2  Where were chemical products mostly applied?  [Enter location code from above.]	3  How were chemical products applied?  [Enter method code from next page.]	4  Who made the chemical application(s)?  [Enter applicator code from next page.]
<b>PRODUCTION CATEGORY</b>					
	<b>01</b>	303	304	312	313
	<b>02</b>	303	304	312	313
	<b>03</b>	303	304	312	313
	<b>04</b>	303	304	312	313
	<b>05</b>	303	304	312	313
	<b>06</b>	303	304	312	313
	<b>07</b>	303	304	312	313
	<b>08</b>	303	304	312	313
	<b>09</b>	303	304	312	313
	<b>10</b>	303	304	312	313
	<b>11</b>	303	304	312	313
	<b>12</b>	303	304	312	313
	<b>13</b>	303	304	312	313
	<b>14</b>	303	304	312	313
	<b>15</b>	303	304	312	313

## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 ( <i>whirly bird, belly grinder</i> ) 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers ( <i>track sprayers</i> ) 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 ( <i>Specify: _____</i> )
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### APPLICATOR CODES FOR COLUMN 4

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

L I N E	CAL – EPA SITE LOCATION NUMBER ( <i>if required</i> )					
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						

## CHEMICAL APPLICATIONS

### PRODUCTION CATEGORY CODES FOR COLUMN 1

NURSERY	FLORICULTURE
2 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 2

6 Greenhouse ( <i>enclosed</i> )
7 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
8 Natural Shade Area ( <i>palm, citrus, etc.</i> )
9 In The Open Production Area
10 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
<b>PRODUCTION CATEGORY</b>					
	<b>16</b>	303	304	312	313
	<b>17</b>	303	304	312	313
	<b>18</b>	303	304	312	313
	<b>19</b>	303	304	312	313
	<b>20</b>	303	304	312	313
	<b>21</b>	303	304	312	313
	<b>22</b>	303	304	312	313
	<b>23</b>	303	304	312	313
	<b>24</b>	303	304	312	313
	<b>25</b>	303	304	312	313
	<b>26</b>	303	304	312	313
	<b>27</b>	303	304	312	313
	<b>28</b>	303	304	312	313
	<b>29</b>	303	304	312	313
	<b>30</b>	303	304	312	313

## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 ( <i>whirly bird, belly grinder</i> ) 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers ( <i>track sprayers</i> ) 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 ( <i>Specify: _____</i> )
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### APPLICATOR CODES FOR COLUMN 4

1 Licensed operator/employee pesticide applicator 2 Unlicensed operator/employee under the direction of licensed applicator 3 Hired custom applicator ( <i>Not an employee of operation</i> ) 4 Other ( <i>Specify: _____</i> )
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<b>L I N E</b>	<b>CAL – EPA SITE LOCATION NUMBER</b> <i>(if required)</i>					
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

## CHEMICAL APPLICATIONS

### PRODUCTION CATEGORY CODES FOR COLUMN 1

NURSERY	FLORICULTURE
3 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 2

11 Greenhouse ( <i>enclosed</i> )
12 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
13 Natural Shade Area ( <i>palm, citrus, etc.</i> )
14 In The Open Production Area
15 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
PRODUCTION CATEGORY					
	31	303	304	312	313
	32	303	304	312	313
	33	303	304	312	313
	34	303	304	312	313
	35	303	304	312	313
	36	303	304	312	313
	37	303	304	312	313
	38	303	304	312	313
	39	303	304	312	313
	40	303	304	312	313
	41	303	304	312	313
	42	303	304	312	313
	43	303	304	312	313
	44	303	304	312	313
	45	303	304	312	313



## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 <i>(whirly bird, belly grinder)</i> 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers <i>(track sprayers)</i> 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 <i>(Specify: _____)</i>
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### APPLICATOR CODES FOR COLUMN 4

1 Licensed operator/employee pesticide applicator 2 Unlicensed operator/employee under the direction of licensed applicator 3 Hired custom applicator <i>(Not an employee of operation)</i> 4 Other <i>(Specify: _____)</i>
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<b>L I N E</b>	<b>CAL – EPA SITE LOCATION NUMBER</b> <i>(if required)</i>					
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 1**

NURSERY	FLORICULTURE
4 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 2**

16 Greenhouse ( <i>enclosed</i> )
17 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
18 Natural Shade Area ( <i>palm, citrus, etc.</i> )
19 In The Open Production Area
20 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
PRODUCTION CATEGORY					
	46	303	304	312	313
	47	303	304	312	313
	48	303	304	312	313
	49	303	304	312	313
	50	303	304	312	313
	51	303	304	312	313
	52	303	304	312	313
	53	303	304	312	313
	54	303	304	312	313
	55	303	304	312	313
	56	303	304	312	313
	57	303	304	312	313
	58	303	304	312	313
	59	303	304	312	313
	60	303	304	312	313

## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 ( <i>whirly bird, belly grinder</i> ) 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers ( <i>track sprayers</i> ) 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 ( <i>Specify: _____</i> )
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### APPLICATOR CODES FOR COLUMN 4

1 Licensed operator/employee pesticide applicator 2 Unlicensed operator/employee under the direction of licensed applicator 3 Hired custom applicator ( <i>Not an employee of operation</i> ) 4 Other ( <i>Specify: _____</i> )
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<b>L I N E</b>	<b>CAL – EPA SITE LOCATION NUMBER</b> <i>(if required)</i>					
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						

## CHEMICAL APPLICATIONS

**PRODUCTION CATEGORY CODES FOR COLUMN 1**

NURSERY	FLORICULTURE
5 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 2**

21 Greenhouse ( <i>enclosed</i> )
22 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
23 Natural Shade Area ( <i>palm, citrus, etc.</i> )
24 In The Open Production Area
25 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
PRODUCTION CATEGORY					
	61	303	304	312	313
	62	303	304	312	313
	63	303	304	312	313
	64	303	304	312	313
	65	303	304	312	313
	66	303	304	312	313
	67	303	304	312	313
	68	303	304	312	313
	69	303	304	312	313
	70	303	304	312	313
	71	303	304	312	313
	72	303	304	312	313
	73	303	304	312	313
	74	303	304	312	313
	75	303	304	312	313

## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 <i>(whirly bird, belly grinder)</i> 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers <i>(track sprayers)</i> 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 <i>(Specify: _____)</i>
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### APPLICATOR CODES FOR COLUMN 4

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

<b>L I N E</b>	<b>CAL – EPA SITE LOCATION NUMBER</b> <i>(if required)</i>					
61						
62						
63						
64						
65						
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						

## CHEMICAL APPLICATIONS

### PRODUCTION CATEGORY CODES FOR COLUMN 1

NURSERY	FLORICULTURE
6 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 2

26 Greenhouse ( <i>enclosed</i> )
27 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
28 Natural Shade Area ( <i>palm, citrus, etc.</i> )
29 In The Open Production Area
30 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
<b>PRODUCTION CATEGORY</b>					
	<b>76</b>	303	304	312	313
	<b>77</b>	303	304	312	313
	<b>78</b>	303	304	312	313
	<b>79</b>	303	304	312	313
	<b>80</b>	303	304	312	313
	<b>81</b>	303	304	312	313
	<b>82</b>	303	304	312	313
	<b>83</b>	303	304	312	313
	<b>84</b>	303	304	312	313
	<b>85</b>	303	304	312	313
	<b>86</b>	303	304	312	313
	<b>87</b>	303	304	312	313
	<b>88</b>	303	304	312	313
	<b>89</b>	303	304	312	313
	<b>90</b>	303	304	312	313

## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 ( <i>whirly bird, belly grinder</i> ) 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers ( <i>track sprayers</i> ) 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 ( <i>Specify: _____</i> )
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### APPLICATOR CODES FOR COLUMN 4

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

L I N E	CAL – EPA SITE LOCATION NUMBER ( <i>if required</i> )					
76						
77						
78						
79						
80						
81						
82						
83						
84						
85						
86						
87						
88						
89						
90						

## CHEMICAL APPLICATIONS

### PRODUCTION CATEGORY CODES FOR COLUMN 1

NURSERY	FLORICULTURE
7 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 2

31 Greenhouse ( <i>enclosed</i> )
32 Shade Structure ( <i>frames, slat, saran, cloth, screen, non-enclosed greenhouse, etc.</i> )
33 Natural Shade Area ( <i>palm, citrus, etc.</i> )
34 In The Open Production Area
35 Perimeter ( <i>non-production areas</i> )

	L I N E	1  To what production category were chemicals mostly applied?  <i>[Enter production code from above.]</i>	2  Where were chemical products mostly applied?  <i>[Enter location code from above.]</i>	3  How were chemical products applied?  <i>[Enter method code from next page.]</i>	4  Who made the chemical application(s)?  <i>[Enter applicator code from next page.]</i>
PRODUCTION CATEGORY					
	91	303	304	312	313
	92	303	304	312	313
	93	303	304	312	313
	94	303	304	312	313
	95	303	304	312	313
	96	303	304	312	313
	97	303	304	312	313
	98	303	304	312	313
	99	303	304	312	313
	100	303	304	312	313
	101	303	304	312	313
	102	303	304	312	313
	103	303	304	312	313
	104	303	304	312	313
	105	303	304	312	313



## CHEMICAL APPLICATIONS

### METHOD CODES FOR COLUMN 3

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 ( <i>whirly bird, belly grinder</i> ) 5 Hand held foggers 6 Dusting 7 Overhead rail sprayers ( <i>track sprayers</i> ) 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 ( <i>Specify: _____</i> )
--	---

### APPLICATOR CODES FOR COLUMN 4

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

L I N E	CAL – EPA SITE LOCATION NUMBER <i>(if required)</i>					
91						
92						
93						
94						
95						
96						
97						
98						
99						
100						
101						
102						
103						
104						
105						

## PEST MANAGEMENT PRACTICES

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

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

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

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

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

## PEST MANAGEMENT PRACTICES

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

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

- |   | NA = 4. | YES = 1 | CODE |
|---|---------|---------|------|
| (xii) sanitizing benches or other platform devices between uses? .....  |         |         | 341  |
| (xiii) sanitizing ground covers between uses? .....   |         |         | 342  |
| (xiv) sanitizing containers between uses? .....   |         |         | 343  |
| (xv) modifying temperature? .....   |         |         | 344  |
| (xvi) modifying hothouse/greenhouse relative humidity? .....  |         |         | 345  |
| (xvii) using greenhouse ventilation? .....  |         |         | 346  |
| (xviii) using greenhouse screening? .....   |         |         | 347  |
| (xix) using plant tissue dryness management such as minimizing overhead irrigation to reduce leaf wetness time? .....   |         |         | 348  |
| (xx) utilizing ground covers, mulches or other physical barriers such as gravel, weed mats, etc.? .....   |         |         | 349  |
| (xxi) use of insect traps? .....  |         |         | 350  |
| 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? ..... |         |         | 351  |
| g. monitor weather data to assist in determining when to make pesticide application decisions? .....  |         |         | 351  |

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.] .....

- 1 CHEMICAL DEALER?
- 2 CHEMICAL MANUFACTURER?
- 3 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

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.]

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

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

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

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