

# 2014 VEGETABLE CHEMICAL USE SURVEY

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ARIZONA ENTERPRISE

|                      |                      |                          |
|----------------------|----------------------|--------------------------|
| <b>VERSION</b><br>01 | <b>POID</b><br>_____ | <b>SUBTRACT</b><br>_____ |
|----------------------|----------------------|--------------------------|

| 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. The information you provide will be used for statistical purposes only. In accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws, your responses will be kept confidential and will not be disclosed in identifiable form to anyone other than employees or agents. By law, every employee and agent has taken an oath and is subject to a jail term, a fine, or both if he or she willfully discloses ANY identifiable information about you or your operation. Response is **voluntary**.

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

**BEGINNING TIME [MILITARY].** ..... 004 \_\_\_\_\_

*[Name, address and partners verified and updated if necessary.]*

During the screening phase of the Vegetable Chemical Use Survey conducted in June and July, your operation was found to be growing or intending to grow vegetables this year. I now need to verify some of the information collected during the screening survey.

*Verify operation name and operator on label and/or screener.*

- *If no changes, go to Section A, page 4.*
- *If changed, continue to "Change in Operating Status".*

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 0535-0218. The time required to complete this information collection is estimated to average 45 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.

## 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, and read Enumerator Note.] .....

CODE

023

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Operation Name \_\_\_\_\_

Operator Name \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

Phone (\_\_\_\_\_) \_\_\_\_\_

[ENUMERATOR NOTE: If the operation on the face page was in business part of the 2014 crop year, complete this questionnaire for the part of the year during which the operation did business, unless the operation has been taken over by a new operator. If the operator has changed midyear, please conduct this interview start to finish with the new operator after reading "Valid Substitution" rules in section 4 of the Interviewer's Manual.]

2. Has the operation printed on this questionnaire been combined or merged with any other farming operations?

Yes - [Go to "Conclusion".]

No - [Continue.]

## SCREENING

1. Did this operation have any of the target crops during the 2014 crop year?

**YES** - [Continue.]

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

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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.]

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

**A**

**LAND OPERATED**

**A**

**ACRES OPERATED**

**CODE**

[Enumerator Action: If acreage on the insert is verified as correct, enter code 1 in box 801, then skip to Section B. If acreage has changed, ask ALL questions.] . . . . .

801

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 vegetables?  
(Include both target and non-target vegetables planted on the operation.) . . . . .

803

### ADA-ESD SCREENING

**[ENUMERATOR NOTE:** *If box is checked, begin with item 1.*  
*If box is NOT checked, go to page 6.]. . . . .*

1. What Pesticide Grower Permit number does this operation use for reporting chemical applications on these [Section A, item 2] acres to the Arizona Department of Agriculture – Environmental Services Division [ADA-ESD]? . . . . .

| PGP 10 NUMBER |  |  |  |  |  |
|---------------|--|--|--|--|--|
| 014           |  |  |  |  |  |

2. Is this permit number used to report chemical applications for acres other than these [Section A, item 2] acres?

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

| OFFICE USE |
|------------|
| 012        |

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

|                    |                    |
|--------------------|--------------------|
| Name _____         | Name _____         |
| Address _____      | Address _____      |
| Phone (    ) _____ | Phone (    ) _____ |

3. Does this operation use any **OTHER** Pesticide Grower Permit number to report chemical applications to ADA-ESD for these [Section A, item 2] acres?

- YES** - [Continue.]                       **NO** - [Go to Section B.]

| OFFICE USE |
|------------|
| 013        |

a. What are these PGP numbers? . . . . .

| PGP 10 NUMBER |  |  |  |  |  |
|---------------|--|--|--|--|--|
| 015           |  |  |  |  |  |
| 016           |  |  |  |  |  |
| 017           |  |  |  |  |  |
| 018           |  |  |  |  |  |
| 019           |  |  |  |  |  |

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

- YES** - [Continue.]                       **NO** - [Go to Section B.]

(1) What other operation(s) use this Pesticide Grower Permit for reporting?  
[Identify operation and ID.]

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

**B**

**VEGETABLE ACREAGE**

**B**

1. What **target vegetables** were on these [Section A, item 2] acres during the 2014 crop year? (**Exclude** new plantings of vegetables not intended for harvest in 2014.)

[ENUMERATOR NOTE: If no target acreage is present, write notes and skip to "Conclusion" on back page.]

|                              |              |            |     |
|------------------------------|--------------|------------|-----|
| OFFICE USE<br>LINES IN TABLE | TABLE<br>001 | LINE<br>99 | 199 |
|------------------------------|--------------|------------|-----|

| LINE | 1    | 2         | 3   | 4  | 5  |
|------|------|-----------|---|--|--|
|      | CROP | CROP CODE | How many acres were PLANTED for harvest in the 2014 crop year? (Include 2014 acres which were planted in other years.)<br>ACRES | Were any commercial fertilizers applied to this crop?<br>[YES = 1] | Were any herbicides, insecticides, fungicides, etc. applied to this crop?<br>[YES = 1] |
| 01   |      |           | 11<br>_____   | 12   | 13   |
| 02   |      |           | 11<br>_____   | 12   | 13   |
| 03   |      |           | 11<br>_____   | 12   | 13   |
| 04   |      |           | 11<br>_____   | 12   | 13   |
| 05   |      |           | 11<br>_____   | 12   | 13   |
| 06   |      |           | 11<br>_____   | 12   | 13   |
| 07   |      |           | 11<br>_____   | 12   | 13   |
| 08   |      |           | 11<br>_____   | 12   | 13   |
| 09   |      |           | 11<br>_____   | 12   | 13   |
| 10   |      |           | 11<br>_____   | 12   | 13   |
| 11   |      |           | 11<br>_____   | 12   | 13   |
| 12   |      |           | 11<br>_____   | 12   | 13   |
| 13   |      |           | 11<br>_____   | 12   | 13   |
| 14   |      |           | 11<br>_____   | 12   | 13   |
| 15   |      |           | 11<br>_____   | 12   | 13   |

- INCLUDE:**
- **TARGET CROPS ONLY.**
  - All acreage of **TARGET CROPS** for processing or fresh market.
  - All acreage equal to or greater than one tenth of an acre.
  - All bearing acreage of **TARGET CROPS** for roadside stands, farmer's markets or U-pick sales.
  - Acreage not harvested due to weather, economic or other reasons.
  - Crops planted in the fall of 2013 if they were part of the 2014 crop.
  - Double Cropping
- EXCLUDE:**
- **ALL CROPS GROWN IN ANOTHER STATE.**
  - All crops grown in greenhouses, hothouses and **home gardens.**
  - Plantings of crops not intended for harvest in 2014.
  - New plantings and other plantings which are not yet bearing (asparagus & strawberries)
  - All vegetables grown for commercial transplanting.
  - All mushrooms, potatoes, dry beans, sweet potatoes.
  - All vegetable acreage grown for seed only.
  - All vegetable acres grown by institutional, experimental, research and university farms.
  - Non-target vegetables.

| ARIZONA – CROP CODES |                         |
|----------------------|-------------------------|
| 709                  | CANTALOUPE              |
| 730                  | HONEYDEW                |
| LETTUCE              |                         |
| 725                  | HEAD                    |
| 728                  | OTHER, includes Romaine |
| SPINACH              |                         |
| 840                  | FRESH MARKET            |
| 752                  | WATERMELONS             |

**NOTES:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# FERTILIZER APPLICATIONS

**Enumerator Note---**  
 If column 4 of the table in Section B is YES for any crops, continue with item 1.  
 If column 4 of the table in Section B is NO for all crops, go to Section D, page 10.

1. I need to record complete information on all commercial fertilizers applied to the **target vegetables** grown during the 2014 crop year. Include all applications regardless of how they were applied (*irrigation water, foliar applications, etc.*). [Record amount of analysis of fertilizers applied or pounds of **actual plant nutrients** applied. Complete the table below (and any necessary supplemental fertilizer tables). Exclude micronutrients, lime, and gypsum.]

|                              |              |            |     |
|------------------------------|--------------|------------|-----|
| OFFICE USE<br>LINES IN TABLE | TABLE<br>001 | LINE<br>99 | 299 |
|------------------------------|--------------|------------|-----|

| LINE | 1    | 2         | 3             | 4  | 5                          | 6           | 7  | 8   | 9  | 10   |
|------|------|-----------|---------------|--|----------------------------|-------------|--|---|--|--|
|      | CROP | CROP CODE | NITROGEN<br>N | PHOSPHATE<br>P <sub>2</sub> O <sub>5</sub> | POTASH<br>K <sub>2</sub> O | SULFUR<br>S | How much was applied per acre per application?<br><br>[Leave this column blank if actual nutrients were reported.] | UNIT CODES<br>1 Pounds<br>12 Gallons<br>13 Quarts<br>15 Liquid Oz.<br>28 Dry Oz.<br>19 Actual Nutrients | How many acres was this applied to?<br><br>ACRES | How many times was it applied?<br><br>NUMBER |
| 01   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 02   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 03   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 04   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 05   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 06   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 07   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 08   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 09   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 10   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 11   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 12   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 13   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 14   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 15   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 16   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |
| 17   |      |           | 31            | 32   | 33                         | 34          | 36   | 37  | 40   | 41   |

C

# FERTILIZER APPLICATIONS

C

| LINE | 1    | 2         | 3             | 4  | 5                          | 6           | 7  | 8   | 9  | 10   |
|------|------|-----------|---------------|--|----------------------------|-------------|--|---|--|--|
|      | CROP | CROP CODE | NITROGEN<br>N | PHOSPHATE<br>P <sub>2</sub> O <sub>5</sub> | POTASH<br>K <sub>2</sub> O | SULFUR<br>S | How much was applied per acre per application?<br><br>[Leave this column blank if actual nutrients were reported.] | UNIT CODES<br>1 Pounds<br>12 Gallons<br>13 Quarts<br>15 Liquid Oz.<br>28 Dry Oz.<br>19 Actual Nutrients | How many acres was this applied to?<br><br>ACRES | How many times was it applied?<br><br>NUMBER |
| 18   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 19   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 20   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 21   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 22   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 23   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 24   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 25   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 26   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 27   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 28   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 401  |
| 29   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 30   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 31   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 32   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 33   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 34   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 35   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 36   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 37   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 38   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 39   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |
| 40   |      |           | 31            | 32   | 33                         | 34          | 36<br>.  | 37  | 40<br>.  | 41   |



## NOTES

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**D PESTICIDE APPLICATIONS**

**D**

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

2. 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 2014 crop year to each of the **target vegetable crops** you grew. **Let's start with the first application to your [crop] since the 2013 crop year harvest.**

[Complete the table for all chemical applications to the target vegetable crops. 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 vegetables after harvest.)

|                              |              |            |     |
|------------------------------|--------------|------------|-----|
| OFFICE USE<br>LINES IN TABLE | TABLE<br>001 | LINE<br>99 | 399 |
|------------------------------|--------------|------------|-----|

| CHEMICAL<br>PRODUCT NAME | L<br>I<br>N<br>E | 1<br><br>CROP | 2<br><br>CROP<br>CODE | 3<br><br>What products<br>were applied<br>to the [crop]?<br><br>[Enter product code.] | 4<br><br>Was this<br>product<br>bought in<br>liquid or<br>dry form?<br><br>[Enter L or D.] | 5<br><br>Was this<br>part of a<br>tank mix?<br><br>[If tank mix, enter<br>line number<br>of first product<br>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<br>(Herbicide, Insecticide, Fungicide, etc.) | Trade Name<br>and Formulation | Form Purchased<br>(Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| _____    | _____   | _____                         | _____                             | _____        |
| _____    | _____   | _____                         | _____                             | _____        |
| _____    | _____   | _____                         | _____                             | _____        |

**PESTICIDE APPLICATIONS**

**CODES FOR COLUMN 8**

|            |                   |              |                                   |
|------------|-------------------|--------------|-----------------------------------|
| 1 POUNDS   | 14 PINTS          | 30 GRAMS     | 46 SPIRALS                        |
| 12 GALLONS | 15 OUNCES, LIQUID | 40 KILOGRAMS | 47 PACKETS                        |
| 13 QUARTS  | 28 OUNCES, DRY    | 41 LITERS    | 50 OTHER ( <i>Specify _____</i> ) |

| L<br>I<br>N<br>E | 6  | OR | 7  | 8   | 9   | 10   |
|------------------|--|----|--|---|---|--|
|                  | How much was applied per acre per application? |    | What was the total amount applied per application? | [Enter unit code from above.]<br><br>CODE | How many acres were treated with this product?<br><br>ACRES | How many times was it applied?<br><br>NUMBER |
| 01               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 02               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 03               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 04               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 05               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 06               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 07               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 08               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 09               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 10               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 11               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 12               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 13               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 14               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 15               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |

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

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

D

**PESTICIDE APPLICATIONS**

D

| CHEMICAL<br>PRODUCT NAME | L<br>I<br>N<br>E | 1<br><br>CROP | 2<br><br>CROP<br>CODE | 3<br>What products<br>were applied<br>to the [crop]?<br><br>[Enter product code.] | 4<br>Was this<br>product<br>bought in<br>liquid or<br>dry form?<br><br>[Enter L or D.] | 5<br>Was this<br>part of a<br>tank mix?<br><br>[If tank mix, enter<br>line number<br>of first product<br>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<br>(Herbicide, Insecticide, Fungicide, etc.) | Trade Name<br>and Formulation | Form Purchased<br>(Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| _____    | _____   | _____                         | _____                             | _____        |
| _____    | _____   | _____                         | _____                             | _____        |
| _____    | _____   | _____                         | _____                             | _____        |

D

# PESTICIDE APPLICATIONS

D

## CODES FOR COLUMN 8

|            |                   |              |                                  |
|------------|-------------------|--------------|----------------------------------|
| 1 POUNDS   | 14 PINTS          | 30 GRAMS     | 46 SPIRALS                       |
| 12 GALLONS | 15 OUNCES, LIQUID | 40 KILOGRAMS | 47 PACKETS                       |
| 13 QUARTS  | 28 OUNCES, DRY    | 41 LITERS    | 50 OTHER ( <i>Specify</i> _____) |

| L<br>I<br>N<br>E | 6  | OR | 7  | 8   | 9   | 10   |
|------------------|--|----|--|---|---|--|
|                  | How much was applied per acre per application? |    | What was the total amount applied per application? | [Enter unit code from above.]<br><br>CODE | How many acres were treated with this product?<br><br>ACRES | How many times was it applied?<br><br>NUMBER |
| 16               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 17               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 18               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 19               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 20               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 21               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 22               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 23               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 24               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 25               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 26               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 27               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 28               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 29               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 30               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 31               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 32               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |
| 33               | 65 . ____                                      |    | 73 . ____  | 74  | 77 . ____   | 79   |

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

| Line No. | Pesticide Type<br>(Herbicides, Insecticides, Fungicides, etc.) | Trade name and Formulation | Form Purchased<br>(Liquid or Dry) | EPA Reg. No. |
|----------|--|----------------------------|-----------------------------------|--------------|
| _____    | _____  | _____                      | _____                             | _____        |
| _____    | _____  | _____                      | _____                             | _____        |
| _____    | _____  | _____                      | _____                             | _____        |

**E PEST MANAGEMENT PRACTICES E**

Now I have some questions about pest management practices you may have used on any of the **total vegetable acres** on this operation. *(Include both target and non-target vegetable crops grown.)*  
**By pests, we mean insects, weeds, and diseases.**

**1. [Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section B, column 5 on page 5?]**

- YES** - [Continue.]                       **No** - [Go to item 5.]

- |  |                | <b>CODE</b> |
|--|----------------|-------------|
| 2. Was weather data used to assist in determining either the need or when to make pesticide applications? .....  | <b>YES = 1</b> | 600         |
| 3. 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? .....   | <b>YES = 1</b> | 601         |
| 4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? .....   | <b>YES = 1</b> | 602         |
| 5. In 2014, how were your vegetable acres primarily scouted for insects, weeds, diseases and/or beneficial organisms? .....  |                |             |
| 1 By deliberately going to the vegetable acres specifically for scouting activities. <i>(Enter code 1 and go to item 6.)</i><br>2 By conducting general observations while performing routine tasks. <i>(Enter code 2 and go to item 8.)</i><br>3 The vegetable acres were not scouted. <i>(Enter code 3 and go to item 11.)</i> | .....          | 608         |
| 6. Was an established scouting process used ( <i>systemic sampling, recording counts, insect traps, etc.</i> ) on any vegetable acres? .....   | <b>YES = 1</b> | 609         |
| 7. Was scouting for pests done on these vegetable acres due to---  |                |             |
| a. a pest advisory warning? .....  | <b>YES = 1</b> | 610         |
| b. a pest development model? .....   | <b>YES = 1</b> | 611         |

| 1  |                | 2<br><i>[If column 1 is YES, ask---]</i><br><b>Who did the majority of the scouting for [column 1]—</b> |
|--|----------------|---|
| 8. Were your vegetable acres scouted for --- | <b>YES = 1</b> | <b>CODE</b>   |
| a. weeds? .....                              | 612            | 614   |
| b. insects and mites? .....                  | 615            | 617   |
| c. disease? .....                            | 618            | 620   |

- 1 Operator, partner or family member
- 2 An employee
- 3 Farm supply or chemical dealer
- 4 Independent crop consultant or commercial scout
- 5 Processor
- 6 Other (*specify:* \_\_\_\_\_)

**E PEST MANAGEMENT PRACTICES**

**E**

|     |  | CODE |
|-----|--|------|
| 9.  | Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases? . . . . .  | 623  |
|     | YES = 1  |      |
| 10. | Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests? . . . . .  | 624  |
|     | YES = 1  |      |
| 11. | Was field mapping data used for making pest management decisions? . . . . .  | 625  |
|     | YES = 1  |      |
| 12. | Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis? . . . . .   | 626  |
|     | YES = 1  |      |
| 13. | Were crop residues plowed down or removed to manage pests? . . . . .   | 627  |
|     | YES = 1  |      |
| 14. | Were crops rotated during the past three years for the purpose of managing pests? . . . . .  | 628  |
|     | YES = 1  |      |
| 15. | Were ground covers, mulches, or other physical barriers maintained to manage pest problems? . . . . .  | 629  |
|     | YES = 1  |      |
| 16. | Was a crop variety chosen because it had resistance to a specific pest? . . . . .  | 630  |
|     | YES = 1  |      |
| 17. | Was no-till or minimum till used to manage pests? . . . . .  | 631  |
|     | YES = 1  |      |
| 18. | Were planting locations planned to avoid infestation of pests? . . . . .   | 632  |
|     | YES = 1  |      |
| 19. | Were planting or harvesting dates adjusted to manage pests? . . . . .  | 633  |
|     | YES = 1  |      |
| 20. | Were row spacing or plant density adjusted to manage pests? . . . . .  | 634  |
|     | YES = 1  |      |
| 21. | Was a trap crop grown to help manage insects? . . . . .  | 635  |
|     | YES = 1  |      |
| 22. | Were any beneficial organisms ( <i>insects, nematodes, fungi</i> ) applied or released to manage pests? . . . . .  | 636  |
|     | YES = 1  |      |
| 23. | Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any vegetable acres? . . . . .   | 637  |
|     | YES = 1  |      |
| 24. | Were any vegetable acres cultivated for weed control during the growing season? . . . . .  | 640  |
|     | YES = 1  |      |
| 25. | Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres? . . . . .  | 642  |
|     | YES = 1  |      |
| 26. | Were equipment and implements cleaned after completing field work to reduce the spread of pests? . . . . .   | 643  |
|     | YES = 1  |      |
| 27. | Were any vegetable acres irrigated for the 2014 crops? . . . . .   | 644  |
|     | YES = 1  |      |
| a.  | [If item 27 = YES, ask--]<br>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 FERTILIZER APPLICATIONS |     |
|---|-----|
| 1 Incomp/R                                  | 200 |
| 3 Valid Zero                                |     |

| 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/](http://www.nass.usda.gov/results/). Would you rather have a brief summary mailed to you at a later date? ..... **YES = 1**

**CODE**

|      |
|------|
| 9990 |
|------|

*[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? ..... **YES = 1**

**CODE**

|     |
|-----|
| 064 |
|-----|

### SUPPLEMENT USE

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

**NUMBER**

Fertilizer Supplements. ....

|     |
|-----|
| 067 |
|-----|

Pesticide Supplements. ....

|     |
|-----|
| 068 |
|-----|

|                    |                                    |
|--------------------|------------------------------------|
| Reported by: _____ | 9911<br>Telephone No. (____) _____ |
|--------------------|------------------------------------|

| Response      | 9901 | Respondent  | 9902 | Mode                | 9903 | Enum | 9998 | 9900 | Date<br>MM DD YY | 9910 | R Unit                     | 9921 | Duplication<br>Adjustor | 9922 | Optional | 0002 |
|---------------|------|-------------|------|---------------------|------|------|------|------|------------------|------|----------------------------|------|-------------------------|------|----------|------|
| 1-Comp        |      | 1- Op/Mgr   |      | 2-Tel               |      |      |      |      |                  |      |                            |      |                         |      |          |      |
| 2-R           |      | 2-Sp        |      | 3-Face-to -<br>Face |      |      |      |      |                  |      |                            |      |                         |      |          |      |
| 3-Inac        |      | 3-Acct/Bkpr |      |                     |      |      |      |      |                  |      |                            |      |                         |      |          |      |
| 4-Office Hold |      | 4-Partner   |      |                     |      |      |      |      |                  |      |                            |      |                         |      |          |      |
|               |      | 9-Other     |      |                     |      |      |      |      |                  |      |                            |      |                         |      |          |      |
|               |      |             |      |                     |      |      |      |      |                  |      | <b>Office Use for POID</b> |      |                         |      |          |      |
|               |      |             |      |                     |      |      |      |      |                  |      | 9989                       |      |                         |      |          |      |
|               |      |             |      |                     |      |      |      |      |                  |      | ____ - ____ - <b>14</b>    |      |                         |      |          |      |
| S/E Name      |      |             |      |                     |      |      |      |      |                  |      |                            |      |                         |      |          |      |