

2022 VEGETABLE CHEMICAL USE SURVEY

OMB No. 0535-0218
 Approval Expires: 5/31/2025
 Project Code: 136
 SurveyID: 2069



**NATIONAL
 AGRICULTURAL
 STATISTICS
 SERVICE**

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ENTERPRISE

| | | |
|----------------------|----------------------|--------------------------|
| VERSION 01 | POID _____ | SUBTRACT _____ |
|----------------------|----------------------|--------------------------|

CONTACT RECORD

| DATE | TIME | NOTES |
|------|------|-------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

INTRODUCTION:

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

We are collecting information on chemical use and pest management practices and need your help to make the information as accurate as possible. The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses any identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: <https://www.nass.usda.gov/confidentiality>. Response is voluntary.

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 is 0535-0218. 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.

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

| |
|---------|
| H H M M |
| 004 |
| _____ |

BEGINNING TIME [MILITARY].....

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 on next page.

CHANGE IN OPERATOR 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?

023 ₁ Yes – Continue

₃ No – Go to Enumerator Note below.

| |
|---|
| Operation Name _____ Operator Name _____ Address _____ _____ Phone (_____) _____ <input type="checkbox"/> Check if cell phone |
|---|

[Enumerator Note: If the operation on the face page was in business part of the 2022 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?

₁ Yes – Go to Conclusion

₃ No – Continue

SCREENING

1. Did this operation have any of the target crops during the 2022 crop year? [See page 5 for target crops.]

¹ Yes – Continue

³ No – Write notes explaining the situation, then Go to Conclusion.

2. Are the day-to-day decisions for this operation (name on label) made by — [Check one]

¹ one individual? [Go to Section A]

⁸ a hired manager? [Go to Section A]

² 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.

Check if verified POID _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

check if
cell phone

Phone: (____) _____

Check if verified POID _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

check if
cell phone

Phone: (____) _____

Check if verified POID _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

check if
cell phone

Phone: (____) _____

Check if verified POID _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

check if
cell phone

Phone: (____) _____

A**LAND OPERATED****A**

Acres Operated

[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 —

a. own?.....

Acres

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, pastureland, wasteland, and government program land?

¹ Yes – Continue

³ 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? INCLUDE 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

TARGET CROPS & CODES

FLORIDA

| |
|-------------------|
| 613 Beans, Snap |
| 808 Cabbage |
| 766 Corn, Sweet |
| 798 Cucumbers |
| 736 Peppers, Bell |
| 742 Squash |
| 770 Tomatoes |
| 752 Watermelons |

GEORGIA

| |
|-------------------|
| 613 Beans, Snap |
| 808 Cabbage |
| 766 Corn, Sweet |
| 798 Cucumbers |
| 824 Onions |
| 736 Peppers, Bell |
| 742 Squash |
| 752 Watermelons |

ILLINOIS

| |
|-----------------|
| 613 Beans, Snap |
| 738 Pumpkins |

INDIANA

| |
|-----------------|
| 738 Pumpkins |
| 752 Watermelons |

MICHIGAN

| |
|-----------------|
| 701 Asparagus |
| 613 Beans, Snap |
| 798 Cucumbers |
| 742 Squash |

MINNESOTA

| |
|-----------------|
| 766 Corn, Sweet |
| 855 Peas, Green |

NEW JERSEY

| |
|-------------------|
| 736 Peppers, Bell |
| 742 Squash |

NEW YORK

| |
|-----------------|
| 613 Beans, Snap |
| 808 Cabbage |
| 766 Corn, Sweet |
| 824 Onions |
| 738 Pumpkins |
| 742 Squash |

NORTH CAROLINA

| |
|-------------------|
| 798 Cucumbers |
| 736 Peppers, Bell |
| 738 Pumpkins |
| 742 Squash |
| 752 Watermelons |

OHIO

| |
|--------------|
| 738 Pumpkins |
|--------------|

OREGON

| |
|-----------------|
| 613 Beans, Snap |
| 766 Corn, Sweet |
| 824 Onions |
| 855 Peas, Green |
| 742 Squash |

PENNSYLVANIA

| |
|-----------------|
| 613 Beans, Snap |
| 738 Pumpkins |

TEXAS

| |
|-----------------|
| 808 Cabbage |
| 798 Cucumbers |
| 824 Onions |
| 738 Pumpkins |
| 752 Watermelons |

WASHINGTON

| |
|-----------------|
| 701 Asparagus |
| 632 Carrots |
| 766 Corn, Sweet |
| 824 Onions |
| 855 Peas, Green |

WISCONSIN

| |
|-----------------|
| 613 Beans, Snap |
| 808 Cabbage |
| 632 Carrots |
| 766 Corn, Sweet |
| 798 Cucumbers |
| 855 Peas, Green |

1. What target vegetable crops were on these [Section A, item 4] acres during the 2022 crop year? EXCLUDE new plantings of vegetables not intended for harvest in 2022.

| | |
|------------------------------|-----|
| Table 001 | |
| Office Use Lines in Table | |
| Line 99 | 199 |

| L I N E | 1 | 2 | 3 | 4 | 5 |
|------------------|------|-----------|---|--|--|
| | Crop | Crop Code | How many acres were planted for harvest in the 2022 crop year? (INCLUDE 2022 acres which were planted in other years.) Acres | Were any commercial fertilizers applied to this crop? Yes = 1 No = 3 | Were any herbicides, insecticides, fungicides, etc. applied to this crop? Yes = 1 No = 3 |
| 01 | | | 11 _____ | 12 | 13 |
| 02 | | | 11 _____ | 12 | 13 |
| 03 | | | 11 _____ | 12 | 13 |
| 04 | | | 11 _____ | 12 | 13 |
| 05 | | | 11 _____ | 12 | 13 |
| 06 | | | 11 _____ | 12 | 13 |
| 07 | | | 11 _____ | 12 | 13 |
| 08 | | | 11 _____ | 12 | 13 |
| 09 | | | 11 _____ | 12 | 13 |
| 10 | | | 11 _____ | 12 | 13 |
| 11 | | | 11 _____ | 12 | 13 |
| 12 | | | 11 _____ | 12 | 13 |
| 13 | | | 11 _____ | 12 | 13 |
| 14 | | | 11 _____ | 12 | 13 |
| 15 | | | 11 _____ | 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.
 - Crops planted in the fall of 2021 if they were part of the 2022 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 2022.
 - New plantings and other plantings which are not yet bearing (asparagus).
 - 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

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 2022 crop year. INCLUDE all applications regardless of how they were applied such as irrigation water, foliar applications, etc. Record amount of an 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 Lines in Table | Table 001 | 299 |
|------------------------------|--------------|-----|

| LINE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------|------|-----------|----|-------------------------------|------------------|----|--|---|--|--|
| | Crop | Crop Code | N | P ₂ O ₅ | K ₂ O | S | How much was applied per acre per application? [Leave this column blank if actual nutrients were reported.] | Unit Codes 1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients | How many acres was this applied to? Acres | How many times was it applied? 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 | 23 | 33 | 34 | 36 | 37 | 40 | 41 |
| 17 | | | 31 | 32 | 33 | 34 | 36 | 37 | 40 | 41 |

FERTILIZER APPLICATIONS

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

COMPLETION CODE FOR
FERTILIZER APPLICATIONS

| | |
|--------------|-----|
| 1 Incomp/R | 200 |
| 3 Valid Zero | |

[Enumerator Action: If pesticides were reported in Section B, column 5, continue. Otherwise, go to Section E.]

1. 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 2022 crop year to each of the target vegetable crops you grew. Let's start with the first application to your crop since the 2021 crop year harvest.

INCLUDE 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 Lines in Table | Table 001 | 399 |
|------------------------------|--------------|-----|

| Chemical Product Name | L I N E | 1 Crop | 2 Crop Code | 3 What products were applied to the [crop]? [Enter product code.] | 4 Was this product bought in liquid or dry form? [Enter L or D.] | 5 Was this part of a tank mix? [If tank mix, enter line number of first product in mix.] |
|-----------------------|------------------|---------------|--------------------|---|--|--|
| | 01 | | | 61 | | 63 |
| | 02 | | | 61 | | 63 |
| | 03 | | | 61 | | 63 |
| | 04 | | | 61 | | 63 |
| | 05 | | | 61 | | 63 |
| | 06 | | | 61 | | 63 |
| | 07 | | | 61 | | 63 |
| | 08 | | | 61 | | 63 |
| | 09 | | | 61 | | 63 |
| | 10 | | | 61 | | 63 |
| | 11 | | | 61 | | 63 |
| | 12 | | | 61 | | 63 |
| | 13 | | | 61 | | 63 |
| | 14 | | | 61 | | 63 |
| | 15 | | | 61 | | 63 |

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

| Line No. | Pesticide Type (Herbicide, insecticide, fungicide, etc.) | Trade Name and Formulation | Form Purchased (Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

PESTICIDE APPLICATIONS

Codes for Column 8

| | |
|-------------------|---------------------------|
| 1 Pounds | 30 Grams |
| 12 Gallons | 40 Kilograms |
| 13 Quarts | 41 Liters |
| 14 Pints | 46 Spirals |
| 15 Ounces, Liquid | 47 Packets |
| 28 Ounces, Dry | 50 Other (Specify: _____) |

| LINE | 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.] Code | How many acres were treated with this product? Acres | How many times was this product applied? 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 (Herbicide, insecticide, fungicide, etc.) | Trade Name and Formulation | Form Purchased (Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| | | | | |
| | | | | |
| | | | | |

PESTICIDE APPLICATIONS

D

D

| Chemical Product Name | L I N E | 1 Crop | 2 Crop Code | 3 What products were applied to the [crop]? [Enter product code.] | 4 Was this product bought in liquid or dry form? [Enter L or D.] | 5 Was this part of a tank mix? [If tank mix, enter line number of first product 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 (Herbicide, insecticide, fungicide, etc.) | Trade Name and Formulation | Form Purchased (Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| | | | | |
| | | | | |
| | | | | |

PESTICIDE APPLICATIONS

Codes for Column 8

| | |
|-------------------|--------------|
| 1 Pounds | 30 Grams |
| 12 Gallons | 40 Kilograms |
| 13 Quarts | 41 Liters |
| 14 Pints | 46 Spirals |
| 15 Ounces, Liquid | 47 Packets |
| 28 Ounces, Dry | 50 Other |

| L I N E | 6 | OR | 7 | 8 | 9 | 11 |
|------------------|--|----|--|---|---|--|
| | How much was applied per acre per application? | | What was the total amount applied per application? | [Enter unit code from above.] Code | How many acres were treated with this product? Acres | How many times was this product applied? 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 |

COMPLETION CODE
for PESTICIDE
APPLICATIONS

| | |
|--------------|-----|
| 1 Incomp/R | 300 |
| 3 Valid Zero | |

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

| Line No. | Pesticide Type (Herbicide, insecticide, fungicide, etc.) | Trade Name and Formulation | Form Purchased (Liquid or Dry) | EPA Reg. No. |
|----------|---|-------------------------------|-----------------------------------|--------------|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

E PEST MANAGEMENT PRACTICES

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.

[Enumerator Action: Were pesticide applications reported in Section B, column 5 on page 6?]

Yes – Continue

No – Go to item 4

1. Was weather data used to assist in determining either the need or when to make pesticide applications?.....

| | |
|-------|------|
| | Code |
| Yes=1 | 600 |
| No=3 | |

2. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators, such as Courier, Intrepid, etc., neem or other natural/biological based products sprayed or applied to manage pests?.....

| | |
|-------|-----|
| Yes=1 | 601 |
| No=3 | |

3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?.....

| | |
|-------|-----|
| Yes=1 | 602 |
| No=3 | |

4. In 2022, 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. Enter code 1 and go to item 5.

2 By conducting general observations while performing routine tasks. Enter code 2 and go to item 7.

3 The vegetable acres were not scouted. Enter code 3 and go to item 10.

| | |
|-------|------|
| | Code |
| | 608 |

5. Was an established scouting process used such as systemic sampling, recording counts, insect traps, etc., on any vegetable acres?.....

| | |
|-------|------|
| | Code |
| Yes=1 | 609 |
| No=3 | |

6. Was scouting for pests done on these vegetable acres due to —

a. a pest advisory warning?.....

| | |
|-------|------|
| | Code |
| Yes=1 | 610 |
| No=3 | |

b. a pest development model?.....

| | |
|-------|-----|
| Yes=1 | 611 |
| No=3 | |

| 1 | 2 | 3 |
|--|-------------------|---|
| 7. Were your vegetable acres scouted for — | Yes = 1 No = 3 | [If column 2 = Yes, ask—] Who did the majority of the scouting for [column 1]? 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: _____) Code |
| a. weeds?..... | 612 | 614 |
| b. insects or mites?..... | 615 | 617 |
| c. disease?..... | 618 | 620 |

E PEST MANAGEMENT PRACTICES

E

| | | Code |
|---------------------------|--|------|
| 8. | Were written or electronic records kept to track the activity or numbers of weeds, insects, or diseases?..... | 623 |
| | Yes=1 No=3 | |
| 9. | Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?..... | 624 |
| | Yes=1 No=3 | |
| 10. | Was field mapping data used for making pest management decisions?..... | 625 |
| | Yes=1 No=3 | |
| 11. | Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?..... | 626 |
| | Yes=1 No=3 | |
| 12. | Were crop residues plowed down or removed to manage pests?..... | 627 |
| | Yes=1 No=3 | |
| 13. | Were crops rotated during the past three years for the purpose of managing pests?..... | 628 |
| | Yes=1 No=3 | |
| 14. | Were ground covers, mulches, or other physical barriers maintained to manage pest problems?... | 629 |
| | Yes=1 No=3 | |
| 15. | Was a crop variety chosen because it had resistance to a specific pest?..... | 630 |
| | Yes=1 No=3 | |
| 16. | Was no-till or minimum till used to manage pests?..... | 631 |
| | Yes=1 No=3 | |
| 17. | Were planting locations planned to avoid infestation of pests?..... | 632 |
| | Yes=1 No=3 | |
| 18. | Were planting or harvesting dates adjusted to manage pests?..... | 633 |
| | Yes=1 No=3 | |
| 19. | Were row spacing or plant density adjusted to manage pests?..... | 634 |
| | Yes=1 No=3 | |
| 20. | Was a trap crop grown to help manage insects?..... | 635 |
| | Yes=1 No=3 | |
| 21. | Were any beneficial organisms such as insects, nematodes, or fungi applied or released to manage pests? | 636 |
| | Yes=1 No=3 | |
| 22. | Were floral lures, attractant repellants, pheromone traps, or other biological pest controls used on any vegetable acres?..... | 637 |
| | Yes=1 No=3 | |
| 23. | Were any vegetable acres cultivated for weed control during the growing season?..... | 640 |
| | Yes=1 No=3 | |
| 24. | Were field edges, lanes, ditches, roadways, or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?..... | 642 |
| | Yes=1 No=3 | |
| 25. | Were equipment and implements cleaned after completing field work to reduce the spread of pests?..... | 643 |
| | Yes=1 No=3 | |
| 26. | Were any vegetable acres irrigated for the 2022 crop?..... | 644 |
| | Yes=1 No=3 | |
| [If item 26 = Yes, ask —] | | |
| a. | Were water management practices, excluding chemigation, such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?..... | 645 |
| | Yes=1 No=3 | |

| COMPLETION CODE for PEST MANAGEMENT PRACTICES | |
|---|-----|
| 1 Incomp/R | 500 |

CONCLUSION

1. **Survey Results:** To receive the complete results of this survey on the release date, go to nass.usda.gov/results

| |
|--|
| To have a brief summary emailed to you, please enter your email address: |
| 1095 |

[Thank the respondent, then review this questionnaire.]

| | | | | |
|-----------------------------|---|---------|------|---------|
| Ending time [Military]..... | <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">H H M M</td> </tr> <tr> <td style="text-align: center;">0005</td> </tr> <tr> <td style="text-align: center;">_ _ _ _</td> </tr> </table> | H H M M | 0005 | _ _ _ _ |
| H H M M | | | | |
| 0005 | | | | |
| _ _ _ _ | | | | |
| | <p style="margin: 0;">Office Use Time in Hours</p> <table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="text-align: center;">006</td> </tr> <tr> <td style="text-align: center;">. _</td> </tr> </table> | 006 | . _ | |
| 006 | | | | |
| . _ | | | | |

Record Use

[Did respondent use operation records to report —]

| | | | | | |
|----------------------|--|-------|-----|------|--|
| | Code | | | | |
| Fertilizer data..... | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px;">Yes=1</td> <td style="width: 10px;">026</td> </tr> <tr> <td>No=3</td> <td></td> </tr> </table> | Yes=1 | 026 | No=3 | |
| Yes=1 | 026 | | | | |
| No=3 | | | | | |
| Pesticide data..... | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px;">Yes=1</td> <td style="width: 10px;">064</td> </tr> <tr> <td>No=3</td> <td></td> </tr> </table> | Yes=1 | 064 | No=3 | |
| Yes=1 | 064 | | | | |
| No=3 | | | | | |

Supplement Use

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

| | |
|-----------------------------|--------|
| | Number |
| Fertilizer Supplements..... | 067 |
| Pesticide Supplements..... | 068 |

Contact Information

| | | | | | | | | | | | | |
|--|-------------------------|--|--|------|----|----|------|-------|-----|-----|-----|-----|
| Operation Email: (if different from above) | Operation Phone: | | | | | | | | | | | |
| 9937 | 9936 () - _____ | check if cell phone <input type="checkbox"/> | | | | | | | | | | |
| Respondent Name: _____ Respondent Phone: (if different from above) | | | | | | | | | | | | |
| 9912 | 9911 () - _____ | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10px;">check if cell phone <input type="checkbox"/></td> <td style="width: 10px;">9910</td> <td style="width: 10px;">MM</td> <td style="width: 10px;">DD</td> <td style="width: 10px;">YYYY</td> </tr> <tr> <td>Date:</td> <td style="width: 10px;">_ _</td> <td style="width: 10px;">_ _</td> <td style="width: 10px;">_ _</td> <td style="width: 10px;">_ _</td> </tr> </table> | check if cell phone <input type="checkbox"/> | 9910 | MM | DD | YYYY | Date: | _ _ | _ _ | _ _ | _ _ |
| check if cell phone <input type="checkbox"/> | 9910 | MM | DD | YYYY | | | | | | | | |
| Date: | _ _ | _ _ | _ _ | _ _ | | | | | | | | |

| OFFICE USE | | | | | | | | | | |
|--|-----------|---|-----------|---------------------------------------|-------|-------|-------|--------------|------|--|
| R. Unit | Ptr 1 Str | Ptr 2 Str | Ptr 3 Str | Ptr 4 Str | OPS | SSO 1 | ADJ | Optional Use | | |
| 9921 | 9922 | 9923 | 9927 | 9928 | 923 | 9907 | 922 | 9906 | 9916 | |
| Response | | Respondent | | Mode | | Enum. | POID | | | |
| 1-Comp 2-R 3-Inac 4-Office Hold | 9901 | 1-Op/Mgr 2-Spouse 3-Acct/Bkpr 4-Partner 9-Other | 9902 | 2-PATI (tel) 3-PAPI (Face-to-Face) | 9903 | 9998 | 9989 | | | |
| | | | | | ----- | | | | | |
| | | | | | 9900 | 9985 | Eval. | Change | | |