

# 2006 VEGETABLE CHEMICAL USE SURVEY



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

U.S. Department of Agriculture  
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California Enterprise

<b>VERSION</b>	<b>POID</b>	<b>SUBTRACT</b>	<b>T-TYPE</b>	<b>TABLE</b>	<b>LINE</b>
<b>01</b>	_____	___	<b>0</b>	<b>000</b>	<b>00</b>

CONTACT RECORD		
DATE	TIME	NOTES

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

We are collecting information on chemical use and need your help to make the information as accurate as possible. Authority for collection of information on the Vegetable Chemical Use Survey is Title 7, Section 2204 of the U.S. Code. This information will be used for analysis and to compile and publish estimates for your state and the United States. Response to this survey is confidential and voluntary.

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

**BEGINNING TIME**

[MILITARY]. . . . .

004 _____
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Name _____
Address _____
_____
Phone(____) _____

[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.

*[If operation grew no target vegetables for the 2006 crop year, conclude interview.]*

*Verify "Reporting Unit" collected during Phase 1 from acreage insert.*

- *If "Reporting Unit" has NOT changed and is a "1", go to page 4.*
- *If "Reporting Unit" has NOT changed but is greater than 1, go to page 2.*
- *If "Reporting Unit" has changed write notes documenting changes and continue.*

## SCREENING

1. Did this operation have any acres of target vegetables during the 2006 crop year?

*(Refer to list on bottom of page 6, **VEGETABLE ACREAGE** Section B.)*

**YES** - *[Continue with item 2.]*

**NO** - *[Write notes explaining situation then go to page 3, **CHANGE IN OPERATION.**]*

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2. Are the day-to-day decisions for this (*name on label*) operation made by---

*[Check one.]*

one individual? *[Go to California Screening, page 4.]*

a hired manager? *[Go to California Screening, page 4.]*

partners? *[Continue.]*

3. **How many individuals are involved in the day-to-day decisions for this operation?**

*[Enter the number of partners, including operator, then obtain or verify partner names below.]*

*(Partners jointly operate land and share in decision making. **Do not** include landlords and tenants as partners.) . . . . .*

NUMBER

--

4. *[Complete partner boxes below if the respondent is in partnership.]*

Please identify the other person(s) in this partnership, then go to California Screening, page 4.

*[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

## CHANGE IN OPERATION

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1. Is anyone else now operating the land you [operation on face page] formerly operated?

**NO** - [Complete **Conclusion** on back page.]

**YES** – [Complete name and address information below for new operator and read enumerator note.]

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name _____
Address _____
Phone (____) _____
POID _____

**[ENUMERATOR NOTE:** *If the operation on face page was in business any part of the 2006 crop year, complete this questionnaire for the part of the year during which the operation did business. If the operation was out of business for the entire 2006 crop year, conclude the interview.*]

## CALIFORNIA SCREENING

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

COUNTY			NUMBER			

2. Is this ID used to report pesticide applications for any other operation(s)?

- 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 crops' acres to the County Agricultural Commissioners?

- YES** - [Continue.]                       **NO** - [Go to Section A, page 5.]

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 Section A, page 5.]

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

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

2006 TOTAL ACRES OPERATED

1. Considering the farmstead, all cropland, pastureland, wasteland, wetland, woodland and government program land, how many Total Acres does this operation---

ACRES

a.  .

b. Rent from others? (**Exclude** land used on an AUM basis). . . . . +  .

c. Rent to others? (**Include** privately owned/rented land administered by a public agency through exchange-of-  .

2. **Total Acres Operated:** [item 1a + 1b -1c]. . . . .  .   
=

3. Of the total [item 2] acres operated, how many acres are considered Cropland? (**Include** land in hay and cropland in government programs.). . . . .  .   
..

4. Of the total [item 2] acres operated, how many acres are vegetables? (**Include** both target and non-target vegetables planted on the operation.). . . . .  .

**B** VEGETABLE ACREAGE**B**

1. What **target vegetables** were on these [Section A, item 2] acres during the 2006 crop year?

T-TYPE 1	TABLE 001
OFFICE USE LINES IN TABLE	
LINE 99	199

LINE	1	2	3	4	5	6	7
	CROP	CROP CODE	How many acres of [crop] did this operation have?  ACRES	Were any commercial fertilizers applied to this crop?  [YES = 1]	Were any herbicides, insecticides, fungicides, etc. applied to this crop?  [YES = 1]	On what date did you complete harvest of your 2005 crop year on these (column 3) acres?  MM DD YY	On what date did you complete harvest of your 2006 crop year [crop]?  MM DD YY
01		101	102	108	109	110	111
02		101	102	108	109	110	111
03		101	102	108	109	110	111
04		101	102	108	109	110	111
05		101	102	108	109	110	111
06		101	102	108	109	110	111
07		101	102	108	109	110	111
08		101	102	108	109	110	111
09		101	102	108	109	110	111
10		101	102	108	109	110	111
11		101	102	108	109	110	111
12		101	102	108	109	110	111
13		101	102	108	109	110	111
14		101	102	108	109	110	111
15		101	102	108	109	110	111

**CALIFORNIA - CROP CODES**

102 ASPARAGUS	CARROTS	13 HONEYDEW	SQUASH
BEANS, SNAP	2107 FRESH MARKET	LETTUCE	1188 SQUASH, SUMMER
2131 FRESH MARKET	4107 PROCESSING	117 HEAD	3188 SQUASH, WINTER
104 BROCCOLI	109 CELERY	149 OTHER, <i>includes Romaine</i>	74 STRAWBERRIES
CABBAGE	CORN, SWEET	120 ONIONS, BULB	TOMATOES
2106 FRESH MARKET	2110 FRESH MARKET	126 PEPPERS, BELL	2134 FRESH MARKET
4 CANTALOUPE	CUCUMBERS	128 PUMPKINS	4134 PROCESSING
108 CAULIFLOWER	2111 FRESH MARKET	SPINACH	33 WATERMELONS
	114 GARLIC	2132 FRESH MARKET	

**B****VEGETABLE ACREAGE****B**

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

**INCLUDES AND EXCLUDES****INCLUDE:****TARGET CROPS ONLY**

- All acreage equal to or greater than one tenth of an acre.
- All acreage for processing or fresh market.
- All acreage 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 2005 if they were part of the 2006 crop.
- Double Cropping.

**EXCLUDE:**

- ALL CROPS GROWN IN ANOTHER STATE.
- All crops grown in greenhouses and hothouses.
- All vegetables grown for commercial transplanting.
- HOME GARDEN vegetable acreage.
- All mushrooms, potatoes, sweetpotatoes, dry beans.
- All vegetable acres grown by institutional, experimental, research and university farms.
- Non-target vegetables.



# 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 E, page 10.

1. I need to record complete information on all commercial fertilizers applied to the target vegetables you grew during the 2006 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).]

T-TYPE 002	TABLE 001
OFFICE USE LINES IN TABLE	
LINE 99	299

LINE	1	2	3	4	5	6	7	8	9	10
	CROP	CROP CODE	NITROGEN N	PHOSPHATE P <sub>2</sub> O <sub>5</sub>	POTASH K <sub>2</sub> 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
01		201	202	203	204	214	205 . ____	206	207 . ____	208
02		201	202	203	204	214	205 . ____	206	207 . ____	208
03		201	202	203	204	214	205 . ____	206	207 . ____	208
04		201	202	203	204	214	205 . ____	206	207 . ____	208
05		201	202	203	204	214	205 . ____	206	207 . ____	208
06		201	202	203	204	214	205 . ____	206	207 . ____	208
07		201	202	203	204	214	205 . ____	206	207 . ____	208
08		201	202	203	204	214	205 . ____	206	207 . ____	208
09		201	202	203	204	214	205 . ____	206	207 . ____	208
10		201	202	203	204	214	205 . ____	206	207 . ____	208
11		201	202	203	204	214	205 . ____	206	207 . ____	208
12		201	202	203	204	214	205 . ____	206	207 . ____	208
13		201	202	203	204	214	205 . ____	206	207 . ____	208
14		201	202	203	204	214	205 . ____	206	207 . ____	208
15		201	202	203	204	214	205 . ____	206	207 . ____	208
16		201	202	203	204	214	205 . ____	206	207 . ____	208
17		201	202	203	204	214	205 . ____	206	207 . ____	208

C

FERTILIZER APPLICATIONS

C

LINE	1	2	3	4	5	6	7	8	9	10
	CROP	CROP CODE	NITROGEN N	PHOSPHATE P <sub>2</sub> O <sub>5</sub>	POTASH K <sub>2</sub> O	SULPHUR 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		201	202	203	204	214	205 . ____	206	207 . ____	208
19		201	202	203	204	214	205 . ____	206	207 . ____	208
20		201	202	203	204	214	205 . ____	206	207 . ____	208
21		201	202	203	204	214	205 . ____	206	207 . ____	208
22		201	202	203	204	214	205 . ____	206	207 . ____	208
23		201	202	203	204	214	205 . ____	206	207 . ____	208
24		201	202	203	204	214	205 . ____	206	207 . ____	208
25		201	202	203	204	214	205 . ____	206	207 . ____	208
26		201	202	203	204	214	205 . ____	206	207 . ____	208
27		201	202	203	204	214	205 . ____	206	207 . ____	208
28		201	202	203	204	214	205 . ____	206	207 . ____	208
29		201	202	203	204	214	205 . ____	206	207 . ____	208
30		201	202	203	204	214	205 . ____	206	207 . ____	208
31		201	202	203	204	214	205 . ____	206	207 . ____	208
32		201	202	203	204	214	205 . ____	206	207 . ____	208
33		201	202	203	204	214	205 . ____	206	207 . ____	208
34		201	202	203	204	214	205 . ____	206	207 . ____	208
35		201	202	203	204	214	205 . ____	206	207 . ____	208
36		201	202	203	204	214	205 . ____	206	207 . ____	208
37		201	202	203	204	214	205 . ____	206	207 . ____	208
38		201	202	203	204	214	205 . ____	206	207 . ____	208
39		201	202	203	204	214	205 . ____	206	207 . ____	208
40		201	202	203	204	214	205 . ____	206	207 . ____	208

**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.**

T-TYPE	TABLE	LINE
0	000	00

**1. [Enumerator Action: Were any chemicals reported in Section B, column 5?]**

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

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

YES = 1

CODE

600

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

YES = 1

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? .....

YES = 1

602

5. In 2006, how were your vegetable acres primarily scouted for insects, weeds, diseases and/or beneficial organisms--

- |  |
|--|
| <p>1 By deliberately going to the vegetable acres specifically for scouting activities? (Enter code 1 and go to item 6.)</p> <p>2 By conducting general observations while performing routine tasks? (Enter code 2 and go to item 8.)</p> <p>3 The vegetable acres were not scouted? (Enter code 3 and go to item 11.)</p> |
|--|

CODE

608

6. Was an established scouting process used (*systemic sampling, recording counts, etc.*) or were insect traps used on any vegetable acres? .....

YES = 1

CODE

609

7. Was scouting for pests done on these vegetable acres due to---

- a. a pest advisory warning? .....
- ..
- b. a pest development model? .....

YES = 1

YES = 1

CODE

610

611

1	2 [If column 1 = YES, ask---] <b>Who did the majority of the scouting for [column 1]—</b>	
	<p>1 Operator, partner or family member</p> <p>2 An employee</p> <p>3 Farm supply or chemical dealer</p> <p>4 Independent crop consultant or commercial scout</p> <p>5 Other, (specify _____)</p>	
8. Were your vegetable acres scouted for ---	YES = 1	CODE
a. weeds? .....	612	614

b. insects and mites	615	617
c. disease? .....	618	620

**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
	<b>YES = 1</b>	
10.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests? . . . . .	624
	<b>YES = 1</b>	
11.	Was field mapping data used for making pest management decisions? . . . . .	625
	<b>YES = 1</b>	
12.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest	626
	<b>YES = 1</b>	
13.	Were crop residues plowed down or removed to manage pests? . . . . .	627
	<b>YES = 1</b>	
14.	Were crops rotated during the 3 years for the purpose of managing pests? . . . . .	628
	<b>YES = 1</b>	
15.	Were ground covers, mulches, or other physical barriers maintained to manage pest	629
	<b>YES = 1</b>	
16.	Was a crop variety chosen because it had resistance to a specific pest? . . . . .	630
	<b>YES = 1</b>	
17.	Was no-till or minimum till used to manage nests?	631
	<b>YES = 1</b>	
18.	Were planting locations planned to avoid infestation of pests? . . . . .	632
	<b>YES = 1</b>	
19.	Were planting or harvesting dates adjusted to manage pests? . . . . .	633
	<b>YES = 1</b>	
20.	Were row spacing or plant density adjusted to manage nests?	634
	<b>YES = 1</b>	
21.	Was a trap crop grown to help manage insects?	635
	<b>YES = 1</b>	
22.	Were any beneficial organisms ( <i>insects, nematodes, fungi</i> ) applied or released to manage pests? . . . . .	636
	<b>YES = 1</b>	
23.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any fruit acres? . . . . .	637
	<b>YES = 1</b>	
24.	Were any vegetable acres cultivated for weed control during the growing season?	640
	<b>YES = 1</b>	
25.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any fruit	642
	<b>YES = 1</b>	
26.	Were equipment and implements cleaned after completing field work to reduce the spread of pests? . . . . .	643
	<b>YES = 1</b>	
27.	Were any vegetable acres irrigated for the 2006 crops? [If item 27 = YES, ask--]	644
	<b>YES = 1</b>	
a.	Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests? . . . . .	645
	<b>YES = 1</b>	

**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	600

# CONCLUSION

## SURVEY PUBLICATIONS

1. The results of this survey will be published in the summer of 2007.  
 Would you like to receive a copy of the results of this survey in the mail?  
 (Results will also be available on the internet at <http://www.usda.gov/nass/>) .....

YES = 1

CODE

099
-----

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

## ENDING TIME

[MILITARY]. .....

005
-----

**OFFICE USE  
TIME IN HOURS**

006
-----

Reported by: \_\_\_\_\_ Telephone No. (\_\_\_\_) \_\_\_\_\_

Response	9901	Respondent	9902	Mode	9903	Enum	098	Eval	100	Date MM DD YY	9910	R Unit	921	Duplication Adjustor	922	Optional	002
1-Comp		1- Op/Mgr		2-Tel													
2-R		2-Sp		3-Face-to													
3-Inac		3-Acct/Bkpr		-Face													
4-Office Hold		4-Partner															
8-Known Zero		9-Other															
<b>06</b>																	

S/E Name \_\_\_\_\_

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