#### 2013 VEGETABLE CHEMICAL USE SURVEY

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				WASHINGTON ENTERPRISE
VERSION		POID	SUBTRACT	
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		CONTACT RE	CORD	
DATE	TIME		NOTES	
		1		
INTRODUC		of our the annuator. Dephase in view own w	o velo 1	
		k for the operator. Rephrase in your own won on costs and returns and need your help	-	on as accurate as possible. Authority for
collection of and CIPSEA	information on A (Public Law 10	the Costs and Returns Report is Title 7, Se 07-347), facts about your operation are kep any question(s) you prefer not to answer.	ection 2204 of the U.S.	Code. Under Title 7 of the U.S. Code
_		to your records during the interview.		
	<u> </u>	, ,		
RECINNING 1	<b>FINAE</b> (NAII ITAE	RY]		004
BEGINNING I	I IIVIE ĮVIIETTAI	X1j		
			Name	
			Address	
			Phone (	)
☐ [Name, addr	ess and partner	rs verified and updated if necessary.]		

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.

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".

#### **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.] CODE 023 YES - [Enter code 1, complete name and address information below for new operator, and read Enumerator Note.]..... Operation Name \_\_\_\_\_ Operator Name \_\_\_\_\_ Address \_\_\_\_\_ **[ENUMERATOR NOTE:** If the operation on the face page was in business part of the 2013 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 2  [ YES - [Continue.]	013 crop year?		
	■ NO - [Write notes explaining situation then go to "Conclu	usion" on back page	e.]	
2.	Are the day-to-day decisions for this operation (name on la [Check one.]	<i>bel</i> ) made by –		
	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 de [Enter the number of partners, including the partner named Identify the other persons in this partnership below, then go (Partners jointly operate land and share in decision making. <b>Do not include</b>	on the label.  to Section <b>A</b> .]		NUMBER
РΑ	ARTNERS POID	PARTNERS	POID	

PARTNERS	POID			PARTNERS	POID		
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
PARTNERS	POID			PARTNERS	POID		
PARTNERS PARTNER NAME	POID			PARTNERS PARTNER NAME	POID		
	POID			-	POID		

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Δ	CR	FS	OF	PFF	2Δ1	ΓED
_	$\mathbf{v}$	$-\mathbf{u}$	$\mathbf{v}$		$\mathbf{n}$	

[Er	num	erator Action: If acreage on the insert is verified as correct, enter code 1 in box 801, then skip to Section <b>B</b> . If acreage has changed, ask ALL questions.]	<b>CODE</b> 801
No	wlv	would like to ask about the total acres operated under this land arrangement.	
1	Ho	w 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.	[Ca	alculate 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.]	
Th	e re	maining questions in this survey refer to these [item 2] acres.	
3.	Of	the total acres operated, how many acres are considered cropland, including	
	lan	d in hay, summer fallow, cropland idle, cropland used for pasture and cropland government programs?	802
4.		the total acres operated, how many acres are vegetables?  clude both target and non-target vegetables planted on the operation.)	803

1. What **target vegetables** were on these [Section A, item 2] acres during the 2013 crop year? (Exclude new plantings of vegetables not intended for harvest in 2013.)

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

OFFICE USE	TABLE	LINE	199
LINES IN TABLE	001	99	

	1	2	3	4	5
LINE			How many acres were PLANTED for harvest in the 2013 crop year? (Include 2013 acres which were planted in other years.)	Were any commercial fertilizers applied to this crop?	Were any herbicides, insecticides, fungicides, etc. applied to this crop?
	CROP	CROP CODE	ACRES	[YES = 1]	[YES = 1]
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.
	<ul> <li>All acreage of TARGET CROPS for processing or fresh market.</li> </ul>
	<ul> <li>All acreage equal to or greater than one tenth of an acre.</li> </ul>
	<ul> <li>All bearing acreage of TARGET CROPS for roadside stands, farmer's markets or U-pick sales.</li> </ul>
	Acreage not harvested due to weather, economic or other reasons.
	<ul> <li>Crops planted in the fall of 2012 if they were part of the 2013 crop.</li> </ul>
	Double Cropping
EXCLUDE:	• ALL CROPS GROWN IN ANOTHER STATE.
	<ul> <li>All crops grown in greenhouses, hothouses and home gardens.</li> </ul>
	<ul> <li>Plantings of crops not intended for harvest in 2013.</li> </ul>
	<ul> <li>New plantings and other plantings which are not yet bearing (asparagus &amp; strawberries)</li> </ul>
	All vegetables grown for commercial transplanting.
	<ul> <li>All mushrooms, potatoes, dry beans, sweet potatoes.</li> </ul>
	<ul> <li>All vegetable acreage grown for seed only.</li> </ul>
	<ul> <li>All vegetable acres grown by institutional, experimental, research and university farms.</li> </ul>
: 	Non-target vegetables.

NOTES:	 	 

# **TARGET CROPS & CODES**

	WASHINGTON					
701	ASPARAGUS					
	CARROTS					
812	PROCESSING					
	CORN, SWEET					
818	PROCESSING					
732	ONIONS, DRY					
	PEAS, GREEN (exclude dried)					
935	PROCESSING					
748	STRAWBERRIES					

#### **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.

 I need to record complete information on all commercial fertilizers applied to the target vegetables grown during the 2013 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.]

			299
OFFICE USE	TABLE	LINE	
LINES IN TABLE	001	99	

	1	2	3	4	5	6	7	8	9	10
LINE		CROP	N I T R O G E N	P H O S P H A T E	P O T A S H	S U L F U R	How much was applied per acre per application?  [Leave this column blank if actual nutrients were	UNIT CODES  1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	How many acres was this applied to?	How many times was it applied?
	CROP	CODE	N	P <sub>2</sub> 0 <sub>5</sub>	K₂0	S	reported.]		ACRES	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

4	d	•
(	٠	J

					_		_			
L N E	1	2	3 N I T R O G E N	4 P H O S P H A T E	5 P O T A S H	S U L F U R	How much was applied per acre per application?  [Leave this column blank if actual nutrients	8  UNIT CODES  1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz. 28 Dry Oz. 19 Actual Nutrients	9  How many acres was this applied to?	How many times was it applied?
	CROP	CROP CODE	N	P <sub>2</sub> 0 <sub>5</sub>	K₂0	S	were reported.]	Numents	ACRES	NUMBER
18		r	31	32	33	34	36	37	40	41
19			31	32	33	34	36	37	40	41
20		l.	31	32	33	34	36	37	40	41
21		i.	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	401
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
			31	32	33	34	36	37	40	41
33			31	32	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
			31	32	33	34	36	37	40	41
40							•		·—	

## **NOTES**

[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 2013 crop year to each of the **target vegetable crops** you grew. **Let's start with the first application to your** [*crop*] **since the 2012 crop year harvest.** 

[Complete the table for all chemical applications to the target vegetable crops. Use supplemental tables if necessary.]
(Include herbicides, insecticides, nematicides, 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	LINE 399 99
CHEMICAL PRODUCT NAME	L I N E	1 CROP	2 CROP CODE	3 What products were applied to the [crop]?	4 Was this product bought in liquid or dry form?	Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]
TRODUCT NAME		CIOI	CODE	61	62	63
	01			61	62	63
	03			61	62	63
	04			61	62	63
	05			61	62	63
	06			61	62	63
	07			61	62	63
	08			61	62	63
	09			61	62	63
	10			61	62	63
	11			61	62	63
	12			61	62	63
	13			61	62	63
	14			61	62	63
	15	sticides not listed in Re		61	62	63

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

#### **CODES FOR COLUMN 8**

1 POUNDS	14	PINTS	30 GRAM	S	46	SPIRALS	l
12 GALLONS	15	OUNCES, LIQUID	40 KILOG	RAMS	47	PACKETS	ĺ
13 QUARTS	28	OUNCES, DRY	41 LITERS	S	50	OTHER (Specify)	l

	6	OR 7	8	9	10
L I N E	How much was applied per acre per application?	What was the total amount applied per application?	[Enter unit code from above.]	How many acres were treated with this product?	When was it applied?
			CODE	ACRES	MM DD YY
01	65	73	74		83
02	65 ·	73	74		83
03		73	74		83
04	65	73	74		83
05	65 ·	73	74		83
06	65 ·	73	74		83
07	65 ·	73	74		83
08	65 ·	73	74		83
09	65	73	74		83
10	65	73	74		83
11	65	73	74	77 ·	83
12	65	73	74		83
13	65	73	74		83
14	65	73	74		83
15	65	73	74		83

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Tradename and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

		1	2	3	4	5
	L I N E			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix? [If tank mix, enter line number
CHEMICAL PRODUCT NAME		CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	of first product in mix.]
	16			61	62	63
	17			61	62	63
	18			61	62	63
	19			61	62	63
	20			61	62	63
	21			61	62	63
	22			61	62	63
	23			61	62	63
	24			61	62	63
	25			61	62	63
	26			61	62	63
	27			61	62	63
	28			61	62	63
	29			61	62	63
	30			61	62	63
	31			61	62	63
	32			61	62	63
	33			61	62	63

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	Trade Name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

D

### **CODES FOR COLUMN 8**

ſ	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 (Specify)

	6 0	<b>DR</b> 7	8	9	10
L I N E	How much was applied per acre per application?	What was the total amount applied per application?	[Enter unit code from above.]	How many acres were treated with this product?	When was it applied?
			CODE	ACRES	MM DD YY
16	65	73	74		83
17	65	73	74		83
18	65	73	74	77	83
19	65	73	74	77	83
20	65	73	74	77	83
21	65	73	74	77	83
22	65	73	74	77	83
23	65	73	74	77	83
24	65	73	74	77	83
25	65	73	74	77	83
26	65	73	74	77	83
27	65	73	74	77	83
28	65	73	74	77	83
29	65	73	74	77	83
30	65	73	74	77	83
31	65	73	74	77	83
32	65	73	74	77	83
33	65	73	74	77	83

Line No.	Pesticide Type (Herbicides, Insecticides, Fungicides, etc.)	Trade name and Formulation	Form Purchased (Liquid or Dry)	EPA Reg. No.

Ε

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							
	☐ YES - [Continue.] ☐ No -	☐ YES - [Continue.] ☐ No - [Go to item 5.]						
				CODE				
2.	Was weather data used to assist in determining when to make pesticide applications?	YES = 1	600					
3.	Were any biological pesticides such as Bt (Bac							
	insect growth regulators (Courier, intrepid, etc.) natural/biological based products sprayed or ap	s? YES = 1	601					
4.	Were pesticides with different mechanisms of a mixed for the primary purpose of keeping pests resistant to pesticides?	YES = 1	602					
5.	vegetable acres primarily	ately going to the vegetable and activities. (Enter code 1 and	and go to item 6.)					
	scouted for insects, weeds,	ting general observations wh sks. ( <i>Enter code 2 and go t</i> e		608				
		able acres were not scouted de 3 and go to item 11.)						
6.	Was an established scouting process used (syrrecording counts, insect traps, etc.) on any veg		YES = 1	609				
7.	Was scouting for pests done on these vegetable	e acres due to						
	a. a pest advisory warning?		YES = 1	610				
	b. a pest development model?		YES = 1	611				
	1		2					
			[If column 1 is YES, a	_				
			Who did the major of the scouting for [col					
		<ol> <li>Operator, partner or family mer</li> <li>An employee</li> <li>Farm supply or chemical deale</li> </ol>						
8.	Were your vegetable acres scouted for	4 Independent crop consultant or 5 Processor 6 Other ( <i>specify</i> :						
YES = 1 CODE								
	a. weeds?	612	614					
	b. insects and mites?	615	617					
	c. disease?	618	620					

## PEST MANAGEMENT PRACTICES

			CODE
9.	Were written or electronic records kept to track the activity or numbers of weeds, insects or diseases?	YES = 1	623
10.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	YES = 1	624
11.	Was field mapping data used for making pest management decisions?	YES = 1	625
12.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	YES = 1	626
13.	Were crop residues plowed down or removed to manage pests?	YES = 1	627
14.	Were crops rotated during the past three years for the purpose of managing pests?	YES = 1	628
15.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	YES = 1	629
16.	Was a crop variety chosen because it had resistance to a specific pest?	YES = 1	630
17.	Was no-till or minimum till used to manage pests?	YES = 1	631
18.	Were planting locations planned to avoid infestation of pests?	YES = 1	632
19.	Were planting or harvesting dates adjusted to manage pests?	YES = 1	633
20.	Were row spacing or plant density adjusted to manage pests?	YES = 1	634
21.	Was a trap crop grown to help manage insects?	YES = 1	635
22.	Were any beneficial organisms ( <i>insects, nematodes, fungi</i> ) applied or released to manage pests?	YES = 1	636
23.	Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on any vegetable acres?	YES = 1	637
24.	Were any vegetable acres cultivated for weed control during the growing season?	YES = 1	640
25.	Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?	YES = 1	642
26.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	YES = 1	643
27.	Were any vegetable acres irrigated for the 2013 crops?	YES = 1	644
	a. [If item 27 = YES, ask] Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment of retention water used to manage pests?	YES = 1	645

	ON CODE for PPLICATIONS
1 Incomp/R 3 Valid Zero	200

COMPLETION CODE for PESTICIDE APPLICATIONS					
1 Incomp/R 3 Valid Zero	300				

	COMPLETION CODE for F MANAGEMENT PRACTICES			
1 Incomp/R	500			

Ε

### CONCLUSION

### **SURVEY RESULTS**

www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date?	1.	To receive the compete results of this survey on the release date, go to	CODE
ENDING TIME [MILITARY].  OFFICE USE TIME IN HOURS  006  SUPPLEMENT USE  Record the total number of supplements used to complete this interview.  Number  067  068  Pesticide Supplements.	1.	and the second of the second o	099
SUPPLEMENT USE  Record the total number of supplements used to complete this interview.  Fertilizer Supplements.  Pesticide Supplements.  9911		[Thank the respondent, then review this questionnaire.]	
SUPPLEMENT USE  Record the total number of supplements used to complete this interview.  NUMBER  Fertilizer Supplements.  Pesticide Supplements.  9911	EN	<b>DING TIME</b> [ <i>MILITARY</i> ]	005
SUPPLEMENT USE  Record the total number of supplements used to complete this interview.  Number  067  Fertilizer Supplements.  Pesticide Supplements.  9911			
Record the total number of supplements used to complete this interview.  Fertilizer Supplements.  Pesticide Supplements.  9911			006
Fertilizer Supplements	SU	PPLEMENT USE	
Fertilizer Supplements	-		
Pesticide Supplements		Record the total number of supplements used to complete this interview.	NUMBER
		Fertilizer Supplements	067
		Fertilizer Supplements	067
		Fertilizer Supplements	067
Reported by:         Telephone No. ()		Fertilizer Supplements	067
		Fertilizer Supplements	067

Respor	ise	Respon	dent	Mod	е	Enum	Eval	Date MM DD	YY	R Unit	Duplication Adjustor	Optional
1-Comp 2-R	9901	1- Op/Mgr 2-Sp	9902	2-Tel 3-Face-to -	9903	0098	0100	9910		0921	0922	0002
3-Inac 4-Office Hold 3-Acct/Bkpr 4-Partner 9-Other	Face						<b>Off</b>	fice Use for Po	OID			
S/F Name									_ 13		<u> — — —</u>	<u></u>