### 2014 VEGETABLE CHEMICAL USE SURVEY

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				<b>3</b> .
				WASHINGTON ENTERPRISE
VERSION		POID	SUBTRACT	
01	_			
		CONT	ACT RECORD	
DATE	TIME		NOTES	
INTRODU	CTION:			
		k for the energia. Denhance in ve	ur our words l	
_		k for the operator. Rephrase in yo	-	
you provide Subtitle A, F identifiable f	will be used for Public Law 107- form to anyone	statistical purposes only. In accordance 347 and other applicable Federal	rdance with the Confidential Informal laws, your responses will be kep By law, every employee and age	accurate as possible. The information rmation Protection provisions of Title V, of confidential and will not be disclosed in thas taken an oath and is subject to a ryour operation. Response is
We encoura	ige you to refer	to your records during the intervie	w.	
DECINNING T	<b>FINAL</b> [NAIL ITA]	DVI		004
		RY]	-	
□ [Name, addr	ess anα paπne	rs verified and updated if necessa	ry.]	
	or intending to			and July, your operation was found e information collected during the
Verify operati	on name and	operator on label and/or scree	ner.	
● If no char	nges, go to Se	ection <b>A</b> , page 4.		
<ul><li>If change</li></ul>	d, 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 cha	nge in operation name or operat	or?	
	□ <b>NO</b> - [Go to Enume	erator Note below.]		
			information below for new operator,	<b>CODE</b> 023
			Operation Name	
			Operator Name	
			Address	
			Phone ()	
[El	NUMERATOR NOTE:	questionnaire for the part of the operation has been taken over	ge was in business part of the 2014 crop year, co e year during which the operation did business, o by a new operator. If the operator has changed inish with the new operator after reading "Valid S s Manual.]	unless the d midyear, please
2.	Has the operation prir ☐ Yes - [Go to "Cond	·	combined or merged with any other farming oper	rations?
	☐ No - [Continue.]			

## **SCREENING**

1.	Did this operation have any of the target crops during the 2014 crop year?  [ YES - [Continue.]									
	•	-	ng situati	on then go to "Conc	lusion" on back pag	re.]				
<ol> <li>Are the day-to-day decisions for this operation (name on label) made by – [Check one.]</li> </ol>										
	one individual? [Go to Section A.]									
	a hired manager? [Go to Section A.]									
	☐ partners? [	Continue.]								
3.	[Enter the numi	ber of partners er persons in t	, includir his partn	in the day-to-day d ng the partner named ership below, then g sion making. Do not incl	d on the label. o to Section <b>A</b> .]			NUMBER		
4.				his partnership, ther		dy been enter	ed.]			
PΑ	ARTNERS	POID			PARTNERS	POID				
PAI	RTNER NAME				PARTNER NAME					
AD	DRESS				ADDRESS					
CIT	Υ	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER		
PΑ	ARTNERS	POID			PARTNERS	POID				
PAI	RTNER NAME				PARTNER NAME					
AD	DRESS				ADDRESS					
CIT	Υ	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER		

A LAND OPERATED A

Δ	CR	FS	OF	FR	ΔΤ	ED	
н	ᅜ	EJ	VГ	$\Gamma$	Αı	$-\nu$	

(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
		Rent to others?	905
	C.	Rent to others?	•—
			900
2.	[Ca	alculate item 1a + 1b - 1c.] Then the total acres operated are:	•
	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.		the total acres operated, how many acres are considered cropland, including	
		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?	803
	(Inc	clude both target and non-target vegetables planted on the operation.)	•

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.]

	1	2	3	4	5
L I N E			How many acres were PLANTED for harvest in the 2014 crop year? (Include 2014 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 2013 if they were part of the 2014 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 2014.</li> </ul>
 	<ul> <li>New plantings and other plantings which are not yet bearing (asparagus &amp; strawberries)</li> </ul>
1 1 1 1 1 1	All vegetables grown for commercial transplanting.
1 1 1 1 1 1	<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						
912	PROCESSING						
	CORN, SWEET						
918	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 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.]

			299
OFFICE USE	TABLE 001	LINE 99	
LINES IN TABLE	001	99	

	1	2	3	4	5	6	7	8	9	10
L I N E	CROP	CROP CODE	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 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?	How many times was it applied?
	ONOI	OODL	31	32	33	34	36	37	40	41
01							00			
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

#### Ν Ρ Р S How How much **UNIT CODES** Н Ū many was applied ı Т O S P H Т How many times per acre per 1 Pounds A S N R O F acres was this was it application? 12 Gallons U applied? Ε applied to? 13 Quarts G E R [Leave this 15 Liquid Oz. A T column blank 28 Dry Oz. 19 Actual Ν if actual Ε nutrients **Nutrients** were **CROP** reported.] S Ν $P_{2}O_{5}$ $K_20$ **CROP** CODE **ACRES NUMBER**

### **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 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, 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	Sine 399 99 99
	L N E	1	2	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
CHEMICAL PRODUCT NAME		CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	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

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	GRAMS	46	SPIRALS
12 GALLONS	15	OUNCES, LIQUID	40	KILOGRAMS	47	PACKETS
13 QUARTS	28	OUNCES, DRY	41	LITERS	50	OTHER (Specify)

	6 <b>O</b>	<b>R</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
01	·	73	74		83
02	65	73	74		83
03	·	73	74		83
04	65	73	74		83
05	·	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	·	83
12	65 ·	73	74		83
13	65 ·	73	74		83
14	65	73	74		83
15	65	73	74	77	83

Line No.	Pesticide Type (Herbicide, Insecticide, Fungicide, etc.)	radename 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		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

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**

	1 POUNDS	14	PINTS	30	GRAMS	46	SPIRALS
1:	2 GALLONS	15	OUNCES, LIQUID	40	KILOGRAMS	47	PACKETS
13	3 QUARTS	28	OUNCES, DRY	41	LITERS	50	OTHER (Specify)

	6 C	<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.)	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 PESTI	CIDE APPLICATIONS repo	rted in Section B, column 5 on page 5?]					
	☐ YES - [Continue.]	☐ <b>No</b> - [Go to item 5.]						
			CODE					
2.	2. Was weather data used to assist in determining either the need or when to make pesticide applications?							
3.	Were any biological pesticides such							
	insect growth regulators ( <i>Courier, in</i> natural/biological based products sp		pests?YES = 1					
4.	Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?							
5.	In 2014, how were your	By deliberately going to the vege for scouting activities. (Enter co	etable acres specifically ode 1 and go to item 6.)					
	vegetable acres primarily scouted for insects, weeds,	2 By conducting general observation routine tasks. ( <i>Enter code 2 an</i>	ons while performing 608					
	diseases and/or beneficial organisms?	3 The vegetable acres were not so (Enter code 3 and go to item 11						
6.	Was an established scouting proces recording counts, insect traps, etc.)	s used (systemic sampling, on any vegetable acres?						
7.	Was scouting for pests done on thes	se vegetable acres due to						
	a. a pest advisory warning?		YES = 1					
	b. a pest development model?		YES = 1					
	1		<b>2</b> [If column 1 is <b>YES</b> , ask]					
			Who did the majority of the scouting for [column 1]—					
8.	Were your vegetable acres scouted	for	<ol> <li>Operator, partner or family member</li> <li>An employee</li> <li>Farm supply or chemical dealer</li> <li>Independent crop consultant or commercial scout</li> <li>Processor</li> <li>Other (specify:</li> </ol>	)				
		YES = 1	CODE					
	a. weeds?	612	614					
	b. insects and mites?	615	617					
	c. disease?	618	620					

### PEST MANAGEMENT PRACTICES

CODE Were written or electronic records kept to track the activity or 623 10. Was scouting data compared to published information on infestation 624 thresholds to determine when to take measures to manage pests?..... 625 11. Was field mapping data used for making pest management decisions?..... 12. Were the services of a diagnostic laboratory used for pest identification or 626 soil or plant tissue pest analysis?..... **YES = 1** 627 13. Were crop residues plowed down or removed to manage pests?..... **YES = 1** 628 14. Were crops rotated during the past three years for the purpose of managing pests?..... YES = 115. Were ground covers, mulches, or other physical barriers 629 maintained to manage pest problems?..... **YES = 1** 630 16. Was a crop variety chosen because it had resistance to a specific pest?..... 17. Was no-till or minimum till used to manage pests?..... 632 18. Were planting locations planned to avoid infestation of pests?..... 19. Were planting or harvesting dates adjusted to manage pests?..... 20. Were row spacing or plant density adjusted to manage pests?..... 635 21. Was a trap crop grown to help manage insects?..... YES = 122. Were any beneficial organisms (insects, nematodes, fungi) 636 applied or released to manage pests?..... YES = 123. Were floral lures, attractants, repellants, pheromone traps or 637 other biological pest controls used on any vegetable acres?..... 640 24. Were any vegetable acres cultivated for weed control during the growing season?..... YES = 1 25. Were field edges, lanes, ditches, roadways or fence lines chopped, 642 mowed, plowed, or burned to manage pests on any vegetable acres?..... YES = 126. Were equipment and implements cleaned after completing 643 field work to reduce the spread of pests?..... **YES = 1** 644 27. Were any vegetable acres irrigated for the 2014 crops?..... YES = 1 a. [If item 27 = YES, ask---] Were water management practices (excluding chemigation) such as irrigation scheduling, controlled drainage, or treatment 645 of retention water used to manage pests?.....

COMPLETION CODE for FERTILIZER APPLICATIONS				
1 Incomp/R 3 Valid Zero	200			

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

COMPLETION CODE for PEST MANAGEMENT PRACTICES						
1 Incomp/R	500					

F

### **CONCLUSION**

	/FY		

1.	To receive the complete results of this survey on the release da www.nass.usda.gov/results/. Would you rather have a brief sur mailed to you at a later date?	<b>CODE</b> 9990				
	[Thank the respondent, then review this questionnaire.]					
EN	DING TIME [MILITARY]		005			
			OFFICE USE TIME IN HOURS			
RE	CORD USE		CODE			
Did respondent use operation records to report pesticide data? YES = 1						
SU	PPLEMENT USE  Record the total number of supplements used to complete this i	nterview.	NUMBER			
Fertilizer Supplements						
Pesticide Supplements						
	I.o.	044				
Rep	9911  Reported by: Telephone No. ()					

Response		Respondent		Mode		Enum	Eval	Dat MM D	R Unit	Duplication Adjustor	Optional
1-Comp 2-R	9901	1- Op/Mgr 2-Sp	9902	2-Tel 3-Face-to -	9903	9998	9900	9910	9921	0922	0002
3-Inac 4-Office Hold	3-Acct/Bkpr 4-Partner 9-Other		Face					 9989	fice Use for Po	DID -	
S/E Name											