2013 VEGETABLE CHEMICAL USE SURVEY

OMB No. 0535-0218 Approval Expires: XX/XX/XXXX Project Code: 136 QID: 035219 SMetaKey: 2069





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PENN <u>STATE</u>				
1853	VERSION	POID	SUBTRACT	
Pesticide Education Program	01			

Pennsylvania Enterprise

CONTACT RECORD							
DATE	TIME NOTES						

INTRODUCTION:

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

We are collecting information on costs and returns and need your help to make the information as accurate as possible. Authority for collection of information on the Costs and Returns Report is Title 7, Section 2204 of the U.S. Code. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept confidential and used only for statistical purposes. Response is **voluntary**. You may skip any question(s) you prefer not to answer.

After removing your name, address, phone number and county information, the computerized data from the 2010 Vegetable Chemical Use Survey is made available to analysts in Penn State's Pesticide Education Program. This will allow the staff to analyze Pennsylvania pest management practices and pesticide usage in more detail than is available at the federal level alone. The statewide averages from Penn State are available at 222.pested.psu.edu/infocenter/PAPestManagementSurveys.html.

Penn State is committed to affirmative action, equal opportunity, and diversity of its work force.

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

BEGINNING TIME [MILITARY].....

Name	
Address	
Phone ()	

004

[Name, address and partners 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.]	

 YES - [Enter code 1, complete name and address information below for new operator, and read Enumerator Note.].
 023

 Operation Name
 Operator Name
 Address
 Phone ()

CODE

[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.]

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 2013 crop year?

YES - [Continue.]

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

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.).....

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.]

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

LAND OPERATED

ACRES OPERATED

		CODE					
[Er	[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.]						
No	ow 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					
	 Rent or lease from others or use rent free? (<i>Exclude</i> 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.]						
Th	ne remaining questions in this survey refer to these [<i>item 2</i>] 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?						
4.	Of the total acres operated, how many acres are vegetables? (<i>Include</i> both target and non-target vegetables planted on the operation.)						

- 4 -

Α

VEGETABLE ACREAGE

What target vegetables were on these [Section A, item 2] acres

- 5 -

during the 2013 crop year? (Exclude new plantings of vegetables not intended for harvest in 2013.) 199 [ENUMERATOR NOTE: If no target acreage is present, write notes **OFFICE USE** TABLE LINE LINES IN TABLE and skip to "Conclusion" on back page.] 001 99 1 2 3 4 5 INCLUDE: • TARGET CROPS ONLY. Were any How many acres Were any L were PLANTED commercial herbicides, for harvest in the fertilizers insecticides, • All acreage of TARGET CROPS Т 2013 crop year? applied to fungicides, for processing or fresh market. Ν (Include 2013 acres this crop? etc. applied Ε which were planted to this crop? • All acreage equal to or greater than in other years.) one tenth of an acre. CROP **CROP CODE** ACRES [YES = 1] [YES = 1] • All bearing acreage of TARGET CROPS for roadside stands, farmer's 11 12 13 markets or U-pick sales. 01 11 12 13 Acreage not harvested due to weather. 02 economic or other reasons. 11 12 13 • Crops planted in the fall of 2012 03 if they were part of the 2013 crop. 11 12 13 • Double Cropping 04 11 12 13 EXCLUDE: • ALL CROPS GROWN 05 IN ANOTHER STATE. 11 12 13 All crops grown in greenhouses, 06 hothouses and home gardens. 11 12 13 07 • Plantings of crops not intended for harvest in 2013. 11 12 13 08 • New plantings and other plantings 11 12 13 which are not yet bearing (asparagus & strawberries) 09 11 12 13 • All vegetables grown for commercial 10 transplanting. 11 12 13 • All mushrooms, potatoes, dry beans, 11 sweet potatoes. 11 12 13 • All vegetable acreage grown 12 for seed only. 11 12 13 13 • All vegetable acres grown by institutional, experimental, research 11 12 13 and university farms. 14 11 13 12 Non-target vegetables. 15

PENNSYLVANIA – CROP CODES

BEANS, SNAP

903 PROCESSING

CORN, SWEET

818 FRESH MARKET

738 PUMPKINS

NOTES:

Β

1.

NOTES and CALCULATIONS:

FERTILIZER APPLICATIONS

Enumerator Note---

С

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 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.]

OFFICE USE LINES IN TABL

			299
	TABLE	LINE	
LE	001	99	
			,

	1	2	3	4	5	6	7	8	9	10
L I N E		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 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?
	CROP	CODE	N	P ₂ 0 ₅	K ₂ 0	S			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

FERTILIZER APPLICATIONS

С

- 8 -

i i	1	2	3	4	5	6	7	8	9	10
L I N E		2	N I T R O G E N	P H O S P H	P O T A S H	S U L F U R	How much was applied per acre per application?	o UNIT CODES 1 Pounds 12 Gallons 13 Quarts 15 Liquid Oz.	How many acres was this applied to?	How many times was it applied?
	CROP	CROP CODE	E N N	A T E P ₂ 0 ₅	K20	S	column blank if actual nutrients were reported.]	28 Dry Oz. 19 Actual Nutrients	ACRES	NUMBER
18			31	32	33	34	36	37	40	41
			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							·		·	
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	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	32	33	34	·	37	·	41
34							·		·	
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							·		·	

С

NOTES and CALCULATIONS:

PESTICIDE APPLICATIONS

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

D

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 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
	L I N E	1	2	3 What products were applied to the [crop]?	4 Was this product bought in liquid or dry form?	5 Was this part of a tank mix? [<i>If tank mix, enter</i> <i>line number</i>
CHEMICAL PRODUCT NAME		CROP	CROP CODE	[Enter product code.]	[Enter L or D.]	of first product in mix.]
	01			61	62	63
-	02			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			61	62	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

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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 O	R 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?	How many times was it applied?
			CODE	ACRES	NUMBER
01	65 ·	73	74		79
02	65 	73	74		79
03	65 ·	73	74		79
04	65 ·	73	74		79
05	65 ·	73	74		79
06	65 ·	73	74		79
07	65 ·	73	74		79
08	65 ·	73	74	77	79
09	65 ·	73	74		79
10	65 ·	73	74		79
11	65 ·	73	74		79
12	65 ·	73	74		79
13	65 ·	73	74		79
14	65 ·	73	74	77	79
15	65 ·	73	74		79

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

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

D

D

D

		1	2	3	4	5
CHEMICAL	L I N E		CROP	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 of first product
PRODUCT NAME		CROP	CODE	[Enter product code.]	[Enter L or D.]	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

[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

- 13 -

	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 C	PR 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?	How many times was it applied?	
			CODE	ACRES	NUMBER	
16	65 	73	74	77 ·	79	
17	65 	73	74		79	
18	65 ·	73	74		79	
19	65 	73	74	77 ·	79	
20	65 ·	73	74		79	
21	65 ·	73	74		79	
22	65 	73	74	77 ·	79	
23	65 ·	73	74		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		79	
30	65 	73	74		79	
31	65 	73	74		79	
32	65 ·	73	74		79	
33	65 ·	73	74		79	

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

 Pesticide Type
 Trade name and Formulation
 Form Purchased (Liquid or Dry)
 EPA Reg. No.

D

D

PEST MANAGEMENT PRACTICES

- 14 -

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.]								
			CODE							
2.	Was weather data used to assist in when to make pesticide application:									
3.	Were any biological pesticides such	n as Bt (<i>Bacillus thuringiensis</i>).								
	insect growth regulators (<i>Courier, intrepid, etc.</i>), neem or other 601 natural/biological based products sprayed or applied to manage pests?									
4.	Were pesticides with different mech	anisms of action rotated or tank								
	mixed for the primary purpose of keeping pests from becoming resistant to pesticides?									
5.	5. In 2013, how were your for scouting activities. (<i>Enter code 1 and go to item 6.</i>)									
	vegetable acres primarily scouted for insects, weeds,	2 By conducting general observations v routine tasks. (<i>Enter code 2 and go</i>	while performing 608							
	diseases and/or beneficial	3 The vegetable acres were not scoute	,							
	organisms?	(Enter code 3 and go to item 11.)								
6.	Was an established scouting proces recording counts, insect traps, etc.)									
7	Was societing for posts done on the	ao vogotable porce due to								
7.	Was scouting for pests done on the	se vegetable acres due to	610							
	a. a pest advisory warning?		· · · · · · · · · · · · · · YES = 1							
	b. a pest development model?		YES = 1							
	1		2							
			[If column 1 is YES , ask]							
			Who did the majority of the scouting for [column 1]—							
8.	 Operator, partner or family member An employee Farm supply or chemical dealer Independent crop consultant or commercial scour Processor 									
0.	Were your vegetable acres scouted	YES = 1	6 Other (specify:) CODE							
	a. weeds?	612	614							
		615	617							
		618	620							
	c. disease?									

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PEST MANAGEMENT PRACTICES

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1 Incomp/R 3 Valid Zero 200

- 15 -

			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. [<i>If item</i> 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
	COMPLETION CODE for COMPLETION CODE for COMPLETION FERTILIZER APPLICATIONS PESTICIDE APPLICATIONS PEST MANAGEM		

1 Incomp/R 3 Valid Zero 300

1 Incomp/R

500

Ε

CONCLUSION

1.	To receive the compete results of this survey on the release date, go to www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date?	CODE
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	064

SUPPLEMENT USE

SURVEY RESULTS

Record the total number of supplements used to complete this interview.	NUMBER
	067
Fertilizer Supplements	
	068
Pesticide Supplements	

							9911						
Reported by:							Teleph	one No	o. ()			
Respor	ıse	Respon	dent	Mod	le	Enum	Eval	мм	Date DD	YY	R Unit	Duplication Adjustor	Optional
1-Comp 2-R 3-Inac 4-Office Hold	9901	1- Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other	9902	2-Tel 3-Face-to - Face	9903	0098	0100	9910		_ 13	0921 Of 0789	0922 fice Use for Po	0002 DID
S/E Name		-		1		1					ł		