2024 VEGETABLE CHEMICAL USE SURVEY

OMB No. 0535-0218 Approval Expires: xx/xx/20xx Project Code: 136 SurveyID: 2069



USDA/NASS

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ARIZONA ENTERPRISE

				ARIZONA EN	IERPRISE	
VERSION 01		POID	SUBTRACT]		
		_	CONTACT RECORD			
DATE	TIME			NOTES		
INTRODUCTIO	N:					
[Introduced you	ırself, and asl	k for the operator. Rephras	se in your own words.]			
as possible. The person who will is conducted in	ne informatior Ifully disclose accordance veral laws. For	n you provide will be used for s any identifiable information with the Confidential Inform	or statistical purposes o on about you or your ope nation Protection provision	s and need your help to make the info only. Your responses will be kept confi eration is subject to a jail term, a fine, ons of Title V, Subtitle A, Public Law tion please visit: https://www.nass.us	idential and any , or both. This sur 107-347 and othe	vey
collection of info complete this in	ormation unle	ess it displays a valid OMB llection is estimated to aver	control number. The val rage 60 minutes per res	ct or sponsor, and a person is not requited OMB control number is 0535-0218 ponse, including the time for reviewing the completing and reviewing the colle	B. The time requirency instructions,	ed to
We encourage	you to refer to	o your farm records during	the interview.			
BEGINNING TIM	E [MILITARY]				004 	M
□ Name, add	Iress, and pa	artners verified and upda	ated if necessary.			
	intending to			nducted in June and July, your operify some of the information collect		nd to

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 se	ection if there is no change	e in operation name or operator.]	
1. Has there been a change i	n operation name or opera	tor?	
023 ₁ Yes – Continue	3 □ №	 Go to Enumerator Note below. 	
		Operation Name	
		Operator Name	_
		Address	
		l =	Check if cell phone
for the part over by a r	t of the year during which t new operator. If the operat	in business part of the 2024 crop year, complete this que he operation did business, unless the operation has been for has changed midyear, please conduct this interview sta ding "Valid Substitution" rules in section 4 of the Interviewe	taken rt to
·	on this questionnaire been Conclusion 3 □ No	combined or merged with any other farming operations? – Continue	

SCREENING

1.	Did this operation have any of	the target of	crops d	luring the 2	024 crop yea	ar? [See page	6 for target cro	ps.]	
	₁ Yes – Continue	3 🗌 No	o – Wri	te notes ex	plaining the	situation, then (Go to Conclusio	on.	
2.	Are the day-to-day decisions	for this ope	ration	(name on la	abel) made b	y — [Check on	e]		
	₁☐ one individual? [G	So to Section	n A]						
	₈ □ a hired manager?	[Go to Sec	tion A]						
	₂ partners? [Contin	ue]							
3.	How many individuals are invo								Number
	partners, including the partner then go to Section A. Partner	s jointly ope	erate la	nd and sha	re in decisio	n making. Do r	not include		
	landlords and tenants as parti	ners							
4.	Please identify the other person					n A. Verify part	tners' names a	nd make	
	necessary corrections if name	es have alre	ady be	en entered					
	Check if verified POID				Check if	verified POID _			
Na	ame:				Name:				
Ad	ldress:				Address:				
Cit	ty: St	ate:	Zip:	abook if	City:		State:	Zip: _	obook if
				check if cell phone		,			check if cell phone
Ph	none: ()				Phone: ()			. 📙
	Check if verified POID				Check it	verified POID _			
Na	nme:				Name:				
Ad	ldress:				Address:				
Cit	ty: St	ate:	Zip:		City:		State:	Zip:	
				check if cell phone					check if cell phone
Ph	one: ()				Phone: ()			. 🗆

LAND OPERATED Acres Operated 801 [Enumerator Action: If acreage on the insert is verified as correct, enter code 1 in box 801, then skip to ADA-ESD Screening on next page. If acreage has changed, ask all questions.]...... Now I would like to ask about the total acres operated under this land arrangement. 1. How many acres does this operation — Acres 901 a. own?..... 902 rent or lease from others or use rent free? EXCLUDE land used on an animal unit month (AUM) basis..... 905 rent to others? 900 2. [Calculate item 1a + 1b - 1c.] Then the total acres operated are: 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.

802

803

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......

Of the total acres operated, how many acres are vegetables? INCLUDE both target and non–target vegetables planted on the operation.....

ADA-ESD SCREENING

[EN	IUM	ERATOR NOTE: If box is checked, begin with item 1. If box is not checked, go to page 6.							
					PGP 1	1 0	NUME	3ER	
1.	che	at Pesticide Grower Permit number does this operation of the mical applications on these [Section A, item 2] acres to be partment of Agriculture – Environmental Services Division	he Arizona	020					
2.		his permit number used to report chemical applications acres other than these [Section A, item 2] acres?							
	1	Yes – Continue 3 No – Go to item 3			г	0	FFIC	E US	Ε
						012			
	a.	What other operation(s) is this permit number used to re	eport for?		-				
		Name	Name						
		Address	Address						
		Phone () Check if cell phone	e Phone ()				Checl cell pl		
3.		es this operation use any OTHER Pesticide Grower Perreport chemical applications to ADA–ESD for these [Secton 1] Yes – Continue 3 No – Go to Section 1	ion A, item 2] acres?			O I	FFIC	E US	E
					PGP 1	1 0	NUME	BER	
	a.	What are these PGP numbers?		015					i
				016					
				017					
				018					
	b.	Do you use any of these ID's to report chemical applicator any other operation(s)?	tions	019					
		1 Yes – Continue 3 No – Go to Section	n B						
		(a) What other operation(s) use this Pesticide Grov [Identify operation and ID]	ver Permit for reporting?						
		Name	Name						
		Reporting ID	Reporting ID					_	
		Address	Address					_	
		Phone () Check if cell phon	e Phone ()				Check cell ph		

1. What target vegetable crops were on these [Section A, item 4] acres during the 2024 crop year? EXCLUDE new plantings of vegetables not intended for harvest in 2024.

	Table 001
Office Lines in	
Line 99	199

				1	
	1	2	3	4	5
L – Z E			How many acres were planted for harvest in the 2024 crop year? (INCLUDE 2024 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 No = 3	Yes = 1 No = 3
01			11	12	13
02			11 •—	12	13
03			11 • <u> </u>	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 acreage of target crops for roadside stands, farmer's markets, or U-pick sales.
- Crops planted in the fall of 2023 if they were part of the 2024 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 2024.
- 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

ARIZONA CROP CODES	NOTES:
709 Cantaloupes	
725 Lettuce, Head	
728 Lettuce, Other	
759 Spinach	
752 Watermelons	

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.

 I need to record complete information on all commercial fertilizers applied to the target vegetables grown during the 2024 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
------------------------------	--------------	-----

	1	2	3	4	5	6	7	8	9	10
L – Z E			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	Crop Code	N	P ₂ O ₅	K₂O	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

	1	2	3	4	5	6	7	8	9	10
	·	_	N I T	P H O	P O T	S U L	How much was applied per acre per application?	Unit Codes 1 Pounds	How many acres was this applied to?	How many times was it applied?
L			R O	S P	A S	F U	[Leave this column	12 Gallons 13 Quarts		
N			G	H	Н	R	blank if actual	15 Liquid Oz.		
E			E N	A T			nutrients were	28 Dry Oz. 19 Actual		
				E			reported.]	Nutrients		
	Crop	Crop Code	N	P ₂ O ₅	K ₂ O	S			Acres	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	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
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 2024 crop year to each of the target vegetable crops you grew. Let's start with the first application to your crop since the 2023 crop year harvest.

INCLUDE 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	Table	399
Lines in Table	001	

		1	2	3	4	5
	L I			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical Product Name	N E	Crop	Crop Code	[Enter product code.]	[Enter L or D.]	[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
		l .		l .		1

Line No.	(Herbicide, insecticide, fungicide, etc.)	and Formulation	(Liquid or Dry)	EPA Reg. No.

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:)

	6 (DR 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 this product applied?
			Code	Acres	Number
01	65	73	74		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

Line No.	Pesticide Type (Herbicide, insecticide, fungicide, etc.)	Pesticide Type Trade Name (Herbicide, insecticide, fungicide, etc.) and Formulation		EPA Reg. No.
	· ·			

Г				Г		1
		1	2	3	4	5
	Ļ			What products were applied to the [crop]?	Was this product bought in liquid or dry form?	Was this part of a tank mix?
Chemical	I N E					[If tank mix, enter line number of first
Product Name		Crop	Crop Code	[Enter product code.]	[Enter L or D.]	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.

Codes for Column 8

	00000101	00	Idiliii O
1	Pounds	30	Grams
12	Gallons	40	Kilograms
13	Quarts Pints	41	Liters
14	Pints	46	Spirals
15	Ounces, Liquid	47	Packets
28	Ounces, Dry	50	Other

	6 C)R 7	8	9	11
L I N	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 this product applied?
E			Code	Acres	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
	ı		not listed in	Respondent Booklet	:£. 1

COMPLETION CODE for PESTICIDE APPLICATIONS

1 Incomp/R	300
3 Valid Zero	

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

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.

[E	numerator Action: Were pesticide applications re	eported in Section	on B, column 5 on page 6?]			
	1 Yes − Continue 3	☐ No – Go to ite	m 4			
1.	Was weather data used to assist in determining applications?			Yes=1 No=3	600	Code
2.	Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators, such as Courier, Intrepid, etc., neem or other natural/biological based products sprayed or applied to manage pests?					
3.	Were pesticides with different mechanisms of a purpose of keeping pests from becoming resist			Yes=1 No=3	602	
4.	In 2024, how were your vegetable acres	specifically and go to it	Intely going to the vegetable acres for scouting activities. Enter code 1 dem 5.		(Code
	primarily scouted for insects, weeds, diseases, and/or beneficial organisms?		routine tasks. Enter code 2 and go to		608	
			ble acres were not scouted. Enter go to item 10.			
						Code
5.	Was an established scouting process used suctraps, etc., on any vegetable acres?			Yes=1 No=3	609	
6.	Was scouting for pests done on these vegetable	le acres due to –	_		(Code
	a. a pest advisory warning?			Yes=1 No=3	610	
	b. a pest development model?			Yes=1 No=3	611	
	1	2	3 [If column 2 = Yes, ask—] Who did the majority of the scouting fo 1 Operator, partner or family members 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or co	er		ut
7.	Were your vegetable acres scouted for —	Yes = 1 No = 3	5 Processor 6 Other: (specify:)
	a. weeds?	612	614			
	b. insects or mites?	615	617			
	c. disease?	618	620			

			Code
8.	Were written or electronic records kept to track the activity or numbers of weeds, insects, or diseases?	Yes=1 No=3	623
9.	Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests?	Yes=1 No=3	624
10.	Was field mapping data used for making pest management decisions?	Yes=1 No=3	625
11.	Were the services of a diagnostic laboratory used for pest identification or soil or plant tissue pest analysis?	Yes=1 No=3	626
12.	Were crop residues plowed down or removed to manage pests?	Yes=1 No=3	627
13.	Were crops rotated during the past three years for the purpose of managing pests?	Yes=1 No=3	628
14.	Were ground covers, mulches, or other physical barriers maintained to manage pest problems?	Yes=1 No=3	629
15.	Was a crop variety chosen because it had resistance to a specific pest?	Yes=1 No=3	630
16.	Was no-till or minimum till used to manage pests?	Yes=1 No=3	631
17.	Were planting locations planned to avoid infestation of pests?	Yes=1 No=3	632
18.	Were planting or harvesting dates adjusted to manage pests?	Yes=1 No=3	633
19.	Were row spacing or plant density adjusted to manage pests?	Yes=1 No=3	634
20.	Was a trap crop grown to help manage insects?	Yes=1 No=3	635
21.	Were any beneficial organisms such as insects, nematodes, or fungi applied or released to manage pests?	Yes=1 No=3	636
22.	Were floral lures, attractant repellants, pheromone traps, or other biological pest controls used on any vegetable acres?	Yes=1 No=3	637
23.	Were any vegetable acres cultivated for weed control during the growing season?	Yes=1 No=3	640
24.	Were field edges, lanes, ditches, roadways, or fence lines chopped, mowed, plowed, or burned to manage pests on any vegetable acres?	Yes=1 No=3	642
25.	Were equipment and implements cleaned after completing field work to reduce the spread of pests?	Yes=1 No=3	643
26.	Were any vegetable acres irrigated for the 2024 crop?	Yes=1 No=3	644
	tem 26 = 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 No=3	645

COMPLETION CODE for PEST MANAGEMENT PRACTICES								
1 Incomp/R	500							

CONCLUSION

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1-Comp 2-R	9901		1-Op/Mgr 2-Spouse	9902		2-PATI (tel) 3-PAPI (Face-to-		9903		3	9989					
3-Inac 4-Office Hold			3-Acct/Bkpr 4-Partner] 5-17	Face)									 _	
4-Onice Hold			9-Other								9900	val.		9985	hang	ge

9900

9985