AGRICULTURAL RESOURCE MANAGEMENT SURVEY

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FALL POTATOES PRODUCTION PRACTICES REPORT FOR 2016

VERSION		POID		Т	RACT	SUBTRACT	C-TYPE	Ξ	
76		<u> </u>			01		114		
			CC	T RECORD)				
DATE	TIME					NOTES			
INTRODUCTIO	N:								
[Introduce your	self, and ask for th	e operator. I	Rephrase in your	own wo	rds.]				
The information Title V, Subtitle J identifiable form fine, or both if he According to the collection of info The time require instructions, sea information.	you provide will be A, Public Law 107- to anyone other th e or she willfully dis Paperwork Reduc ormation unless it d ad to complete this arching existing dat	e used for sta -347 and othe han employee scloses ANY ction Act of 19 lisplays a vali information of ta sources, ga	atistical purposes er applicable Fed es or agents. By identifiable inform 995, an agency m id OBM control no collection is estim athering and main	only. In eral laws law, eve nation al nay not o umber. nated to ntaining	accordance w s, your respor- ery employee a bout you or you conduct or spo- The valid OM average 35 m	your help to make to with the Confidential hases will be kept cor- and agent has taker bur operation. Response onsor, and a person B control number for inutes per response ded, and completing	Information Pro infidential and wi in an oath and is ponse is volunta is not required r this information e, including the t	otectio Il not b subject ary. to resp n colle ime fo	pon provisions of be disclosed in ct to a jail term, a pond to, a ection is 0535-0218. or reviewing
We encourage y	ou to refer to your		3 during the interv	/iew.					
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- 2 -FIELD SELECTION

TOTAL PLANTED ACRES

0050

1. How many acres of fall potatoes did this operation plant for the 2016 crop year?

[If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page.]

I will follow a simple procedure to make a random selection from the fall potato fields planted for the 2016 crop.

	TOTAL NUMBER OF FIELDS PLANTED
What is the TOTAL number of fall potato fields that were planted on this operation? [If only one field, enter "1" and go to item 5.]	0020

3. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

[If there are more than 18 fields, make sure item 2 is TOTAL fields planted and list only the 18 fields closest to the operator's permanent residence. If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

1	10
2	11
3	12
4	13
5	14
6	15
7	16
8	17
9	18

|--|

0022

0021

SELECTED FIELD NUMBER

- 4. [ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only 1 field, enter 1]
- (field name/number/description). 5. The field selected is During this interview, the fall potato questions will be about this selected fall potato field. [Be sure the operator can identify the selected field.]

	ACRES	
	1301	
How many acres of fall potatoes were planted in this field for the 2016 crop?		•

-	^

2.

6.

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

NUTRIENT or FERTILIZER APPLICATIONS----SELECTED FIELD

- 3 -

С

									CODE	EDIT TABLE
1.	Were commercial nutrients or fertilizers applied to this field for the 2016 fall potato crop? (Include those from operators, landlords, and contractors.).						0202 YES = 1		0200	
2.	[If COMMERCIAL nutrient or fertilizer applied, continue, else go to Section D.]					D .]		NUMBER		
3.	How many commercial nutrient or fertilizer applicati the 2016 crop? (<i>Include</i> applications made by airplanes and custom applicators)								0203	
4.	Now I need	to record i	nforma	ation	for each ap	plication.				
		CH	IECI	KLI	ST					
 ~	INCLUDE			~	EXCLUDE					
	Custom appl fertilizers	ied nutrients a	and		Micronutrients					
	Nutrients or i	fertilizers appl	lied		Unprocessed i	manure				
	those applied was fallow in	d earlier if this	field		Nutrients or fe to previous cro	rtilizers applied ops in this field				
	Commerciall or compost	y prepared m	anure		Lime and Gyp	sum/landplaster	Office U Lines in Ta		0299	
							APPLIC	ATION CODES fo	r COLUMN 6	
	23						t, ground witho t, ground with i	ut incorporation	5 In irrigati 6 Chisel/In	on water jected or knifed in
						3 Broadcas4 In seed fu	t, by aircraft		7 Banded i	in or over row directed spray
.			2			3 Broadcas	t, by aircraft	5	7 Banded i	in or over row
L I N E	pound	MATERIA nter percentage is of plant nutri ow Common Nu in Respond	ALS USI e analysis ents appl utrients o	s or ac lied pe or Fertil	r acre.]	3 Broadcas 4 In seed fu	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding	7 Banded i 8 Foliar or	in or over row directed spray
I N	pound [Shi	MATERIA nter percentage ls of plant nutrie ow Common Nu in Respond	ALS USI e analysis ents appl utrients o ent Book	s or ac lied pe or Ferti (let.]	er acre.] lizers	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons	5 When was this applied? 1 In the fall before seeding 2 In the spring	7 Banded i 8 Foliar or 6 How was this applied? [Refer to code list	n or over row directed spray 7 How many acres were treated in this
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I N E 01	pound [She Nitrogen 31 31	MATERIA Inter percentage Is of plant nutric ow Common Nu in Respond P2O5 Phosphate 32	ALS USE e analysis ents appl utrients o ent Book K2' Pota 33	s or ac lied pe or Ferti det.] O	r acre.] lizers Sulfur 34	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 36	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding 38	7 Banded i 8 Foliar or 6 How was this applied? [Refer to code list above.] 39	n or over row directed spray 7 How many acres were treated in this application? 40
I N E 01 02	pound [Shu Nitrogen 31 31 31	MATERIA Inter percentage is of plant nutric ow Common Nu in Respond PaO5 Phosphate 32 32	ALS USE e analysis ents appl utrients o ent Book K2' Pota 33 33	s or ac lied pe or Ferti det.] O	r acre.] lizers Sulfur 34 34	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 36 36	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding 38 38	7 Banded i 8 Foliar or 6 How was this applied? [<i>Refer to</i> <i>code list</i> <i>above.</i>] 39	rin or over row directed spray 7 How many acres were treated in this application? 40 40
I N E 01 02 03	pound [Shu Nitrogen 31 31 31 31 31	MATERIA Inter percentage its of plant nutric ow Common Nutric in Respond Plashate 32 32 32 32	ALS USE e analysis ents appl utrients o ent Book K2 ¹ Pota 33 33 33	s or ac lied pe or Ferti det.] O	r acre.] lizers Sulfur 34 34 34	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 36 36	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding 38 38 38	7 Banded i 8 Foliar or 6 How was this applied? [Refer to code list above.] 39 39 39	rin or over row directed spray 7 How many acres were treated in this application? 40 40 40
I N E 01 02 03 04	pound [Shu Nitrogen 31 31 31 31 31	MATERIA Inter percentage is of plant nutric ow Common Nu in Respond Phosphate 32 32 32 32	ALS USE e analysis ents appl utrients o ent Book K2' Pota 33 33 33 33	s or ac lied pe or Ferti det.] O	r acre.] lizers Sulfur 34 34 34 34	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 36 36 36	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37 37 37	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding 38 38 38 38	7 Banded i 8 Foliar or 6 How was this applied? [Refer to code list above.] 39 39 39 39	in or over row directed spray 7 How many acres were treated in this application? 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
I N E 01 02 03 04 05	pound pound [Shi N Nitrogen 31	MATERIA Inter percentage is of plant nutric ow Common Nu in Respond Phosphate 32 32 32 32 32 32	ALS USE e analysis ents appl utrients o ent Book K2' Pota 33 33 33 33 33 33	s or ac lied pe or Ferti det.] O	r acre.] lizers Sulfur 34 34 34 34 34 34	3 Broadcas 4 In seed fu 3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 36 36 36 36	t, by aircraft irrow 4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients 37 37 37 37 37 37	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding 38 38 38 38 38 38	7 Banded i 8 Foliar or 6 How was this applied? [Refer to code list above.] 39 39 39 39 39	rin or over row directed spray

D

BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

Now I have some questions about all the biocontrols or pesticides used on this field for the 2016 fall potato crop including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this fall potato field for the 2016 crop? [Probe for applications made in the fall of 2015 (and those made earlier if this field was fallow).]	CODE EDIT TABLE 0302 0300 YES = 1							
If no biocontrols or pesticides applied, go to Section E. Include defoliants, fungicides, herbicides, Exclude nutrients or fertilizers reported								
insecticides, and other pesticides. earlier and seed treatments.								
	DFFICE USE TABLE 0399 IES IN TABLE 001							
2 3 4 5	6 OR 7 8							
WhatWas thisWas thisWhenHow isproductsproductpart of awas thiswas awere appliedbought intank mix?applied?per aLto this field?liquid or dry1BEFOREper applicIform?[If tank mix, plantingapplic	opliedthe total1 Poundsacreamount12 Gallonserapplied per13 Quarts							
N[Show productenter lineEcodes from[Enter L or D]number of3 ATplanting	in this field? 15 Liquid Ounces 28 Dry Ounces							
CHEMICAL PRODUCT NAME Respondent Booklet.] Inst product in mix.] 4 AFTER Planting	30 Grams							
01 ⁶¹ ⁶³ ⁶⁴ ⁶⁵	73 74							
02 61 63 64 65	73 74							
03 61 63 64 65	73 74							
04 61 63 64 65	73 74							
05 61 63 64 65	73 74							
06 61 63 64 65	73 74							
07 ⁶¹ ⁶³ ⁶⁴ ⁶⁵	73 74							
08 61 63 64 65	73 74							
09 ⁶¹ 63 ⁶⁴ ⁶⁵	73 74							
10 61 63 64 65	73 74							
11 61 63 64 65	· 73 · 74							
12 61 63 64 65	· 73 · 74							
13 61 63 64 65	73 74							
61 63 64 65								

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify---]

LINE

Pesticide Type (Herbicide, Insecticide Fungicide, etc.) EPA No. or Trade name and Formulation Form Purchased (Liquid or Dry) Where Purchased [Ask ONLY if EPA No. cannot be reported.] D

APPLICATIONS CODES for column 9				
1 Broadcast, ground without incorporation	6 Chisel/injected or knifed in			
2 Broadcast, ground with incorporation	7 Banded in or over row			
3 Broadcast, by aircraft	/ Danded in or over row			
4 In Seed furrow	8 Foliar or directed spray			
5 In Irrigation water	9 Spot treatments			

	9	10	11	12
L I N E	How was this product applied?	How many acres in this field were treated with this product?	How many times was it applied?	Were these applications made by – 1 Operator, partner or family member? 2 Custom applicator?
	[Enter code from above.]	ACRES	NUMBER	3 Employee/Other?
01	76		79	80
02	76	77	79	80
03	76		79	80
04	76		79	80
05	76		79	80
06	76		79	80
07	76	77	79	80
08	76		79	80
09	76		79	80
10	76		79	80
11	76		79	80
12	76		79	80
13	76		79	80
14	76		79	80

Ε	PEST MANAGEMENT PRACTICESSELECTED FIELD	E
No fa	ow I have some questions about your pest management decisions and practices used on this fi Il potato crop. By pests, we mean WEEDS, INSECTS, and DISEASES.	eld for the 2016
1.	[Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]	
	YES - [Continue.] NO - [Go to item 10.]	
		CODE
2.	Was weather data used to assist in determining either the need or when to make pesticide applications?	0800
3.	Were any biological pesticides such as Bt (<i>Bacillus thuringiensis</i>), insect growth regulators neem or other natural/biological based products sprayed or applied to manage pests in this field?	0801
4.	Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?	0802
10.	In 2016, how was this field 1 By deliberately going to the field specifically for scouting activities [<i>Enter code 1 and go to item 11.</i>] primarily scouted for insects, weeds, diseases, and/or beneficial organisms? 2 By conducting general observations while performing routine tasks [<i>Enter code 2 and go to item 13.</i>] 3 This field was not scouted. [<i>Enter code 3 and go to item 18.</i>]	CODE 0808
11.	Was an established scouting process (systematic sampling, recording counts, etc.) used or were insect traps used in this field?	0809
12.	Was scouting for pests done in this field due to	
	a. a pest advisory warning?	0810

			0						
								0811	
b.	a pest developm	nent m	odel?	 	 	 	 YES =	1	

1		2	3			
		[If YES, ask—] What was the infestation level for [column 1]? –	[<i>If column 1 = YES, ask</i>] Who did the majority of the scouting for [<i>column 1</i>]			
13. Was this fall potato field scouted for	YES = 1	1 Worse than normal 2 Normal 3 Less than normal CODE	 Operator, partner or family member An employee Farm supply or chemical dealer Independent crop consultant or commercial scout CODE 			
a. weeds?	0812	0813	0814			
b. insects or mites?	0815	0816	0817			
c. diseases?	0818	0819	0820			

		CODE
15. Were written or electronic records kept for this field to track the		0823
activity or numbers of weeds, insects or diseases?	YES = 1	
16. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field?	YES = 1	0824
17. Did you use field mapping of previous weed problems to assist you in making weed management decisions?	YES = 1	0825

18.		you do any of the following other types of pest management for the specific purpose naging or reducing the spread of pests in this field? [Enter code "1" for all that apply.]	e of	
				CODE
	a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?	YES = 1	0841
	b.	Plow down crop residue (using conventional tillage)?	YES = 1	0842
	C.	Remove/burn down crop residue?	YES = 1	0843
	d.	Rotate crops in this field during the past 3 years?	YES = 1	0844
	e.	Maintain ground covers, mulches, or other physical barriers?	YES = 1	0845
	f.	Choose crop variety because of specific resistance to a certain pest?	YES = 1	0846
	g.	Use no-till or minimum till?	YES = 1	0847
	h.	Plan planting locations to avoid cross infestation of pests?	YES = 1	0848
	i.	Adjust planting or harvesting dates?	YES = 1	0849
	j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?	YES = 1	0850
	k.	Clean equipment and field implements after completing field work to reduce the spread of pests?	YES = 1	0851
	I.	Adjust row spacing, plant density, or row directions?	YES = 1	0852
	m.	Have the seed treated for insect or disease control after you purchased the seed for this field?	YES = 1	0854
	n.	Maintain a beneficial insect or vertebrate habitat?	YES = 1	0855
	0.	Maintain buffer strips or border rows to isolate organic potatoes from non-organic crops or land, or did you take a buffer harvest?	YES = 1	0856
	p.	Use a flamer to kill weeds?	YES = 1	0857
				CODE
19.		re any beneficial organisms (insects, nematodes, fungi) applied released in this field to manage pests?	YES = 1	0853
20.		re floral lures, attractants, repellants, pheromone traps or other logical pest controls used on this field?	YES = 1	0858
21.	Wa	s a trap crop (excluding fallow) grown to help manage insects in this field?	YES = 1	0863
22.	Wa	s this field left fallow in 2015 to help manage insects on this field?	YES = 1	0864
23.	dra	re water management practices such as irrigation scheduling, controlled inage, or treatment of retention water used on this field to manage for		0861
	pes	ets or toxic producing fungi and bacteria?	YES = 1	

	Completion Code for Pest Management Data								
		500							
1	Incomplete/Refusal								

CONCLUSION

		CODE
1.	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/)	9990
		HH MM
2.	ENDING TIME [MILITARY]	
RE	CORDS USE	
3.	[Did respondent use farm/ranch records to report]	CODE
	a. [fertilizer data?]	0011
	b. [<i>pesticide</i> data?]	0012
		NUMBER
SU	PPLEMENTS USED FERTILIZER APPLICATIONS	0041
4.	[Record the total number of each type of supplement used to PESTICIDE complete this interview.].	0042

	9910				9911
Reported by:	M	м	D	14 	Telephone()

R. Unit	SSO 1	Optional Use		Eval.		Change			
9921 9907		9906	9906 9916			9900		9985	
Response		Respondent			Mode			Enum.	
1-Comp 2-R 3-Inac 4-Office Hold	22	-Op/Mgr 2-Sp 3-Acct/Bkpr I-Partner 9-Other	9902		2-Tel 3-Face-t	o-Face	9903	9	9998