

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
POTATO PRODUCTION PRACTICES REPORT
for 1997**

VERSION	STRATUM	ID/SEGMENT	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
09					0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMP	0910
5 - SCREENOUT	
8 - REF	
9 - INAC./INCOMPL.	
OPTIONAL	0002
OPTIONAL	0003

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

We are collecting information on practices to produce potatoes and need your help to make the information as accurate as possible. Authority for collection of information on the Potato Production Practices Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

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

BEGINNING TIME [MILITARY]

[Name, address and partners verified and updated if necessary.]

[ENUMERATOR NOTE: If box is code 1, complete the Screening Supplement. If box is not coded, begin with Section A.]

SCREENING BOX

PARTNERS:	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
LSF ID _____	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

Office Use Comp Code Partners' Stratum 182

A POTATO FIELD SELECTION A

1. How many acres of potatoes did this operation **plant** in 1997?
*[If no acres planted, review information on Phase I Information Form.
Make notes, then go to Conclusion, back page.]*

TOTAL
PLANTED ACRES
0117

3. I will follow a simple procedure to make a random selection from the potato fields planted for the 1997 crop.

What is the TOTAL number of potato fields that were planted on this operation?

NUMBER
0122

[If only 1 field, go to item 5.]

4. **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, list only the 18 fields closest to your permanent residence.)*
- ▶ *[If respondent is unable to identify or describe the fields, use a Field Selection Grid on next page.]*

FIELD NAME, NUMBER OR DESCRIPTION

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____

FIELD NAME, NUMBER OR DESCRIPTION

- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____
- 18 _____

OFFICE USE

0124

B FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of potatoes did this operation plant in the selected field in 1997?

ACRES	
1681	•

2. How many acres in this field were--
a. owned by this operation?

1682	•
------	---

b. rented for **CASH**?

1683	•
------	---

c. **SHARE** rented?

1684	•
------	---

d. used **RENT-FREE**?

1685	•
------	---

9. On what date was this field planted?

MM DD YY		
1688		

10. What was the seeding rate per acre the first time this field was seeded?

UNITS PER ACRE		UNIT CODE	
		1=POUNDS	
		2=CWT.	
		4=BUSHEL	
		25=KERNELS/SEEDS	
1689	•	1690	

12. Was the source of the potato seed--

1 PURCHASED
2 HOMEGROWN OR TRADED
3 BOTH

.....

CODE	
1693	

15. [If any seed was **PURCHASED** (item 12 = 1 or 3) ask--; else go to item 18.]

Was one of these pest resistant varieties of potato seed used--
[Use Seed Variety Code List.]

2 Bt variety for insect resistance (Monsanto NewLeaf, such as Nature Mark)?
4 Potato scab resistance variety (such as Superior)?
5 None of these?

a. in this field in 1997?

CODE	
1696	

B FIELD CHARACTERISTICS---SELECTED FIELD

B

CODE

1698

18. Has harvest of this field been completed? YES = 1

19. Now I need information about the acres harvested (or to be harvested) and the yields from this potato field.

1	2 How many acres in the potato field were (will be) harvested for-- [column 1] ACRES	3 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	4 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHEL 5=BARRELS
e. processing potatoes?	0036 .	0037	0038
f. table stock potatoes?	0039 .	0040	0041
g. seed for planting?	0042 .	0043	0044
h. abandoned?	0045 .		
i. other use?	0046 .		

B FIELD CHARACTERISTICS---SELECTED FIELD

B

CROP CODE LIST for item 20 PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay 190 Barley 3 Dry Beans 85 Canola 310 Clover 6 Corn for grain 5 Corn for silage	201 Cotton, Upland 202 Cotton, Pima 302 CRP 311 Grasses other than clover 11 Hay, all other 94 Mustard 15 Oats	16 Peanuts 17 Dry Peas 20 Potatoes 21 Rice 22 Rye 98 Safflower 25 Sorghum for grain 24 Sorghum for silage	26 Soybeans 28 Sugarbeets 30 Sunflowers 142 Vegetables 163 Wheat, durum 164 Wheat, other spring 165 Wheat, winter 318 Fallow or Idle (diverted)

20. Next I need to know what crops were previously PLANTED on this field, including cover crops.

1	2 What crop was PLANTED on this field in-- [column 1]		3 Was this crop irrigated on this field? YES=1
	NAME	CODE	
a. FALL of 1996?		0072	0073
b. SPRING/SUMMER of 1996?		0074	0075
c. FALL of 1995?		0076	0077
d. SPRING/SUMMER of 1995?		0078	0079
e. FALL of 1994?		0080	0081
f. SPRING/SUMMER of 1994?		0082	0083

21. [If most recent crop in item 20 was SMALL GRAIN, (barley, oats, rye or wheat) ask--]

Was crop residue removed from this field by baling or removing straw, burning, etc.?

YES = 1 CODE

22. Did your land-use practices for this field include--

a. terraces?	YES = 1	1700
b. contour farming?	YES = 1	1701
c. temporary or permanent levees?	YES = 1	1702
d. grassed waterways?	YES = 1	1703
e. strip cropping?	YES = 1	1704
f. underground outlets such as tile drainage?	YES = 1	1705
g. other drainage channels or diversions? (Include water furrows)	YES = 1	1706

23. Has the Natural Resource Conservation Service or NRCS classified this field as "Highly Erodible"?

YES = 1

24. Have you been notified by NRCS that this field contains a wetland?

YES = 1

NOTES and CALCULATIONS:

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. What commercial FERTILIZERS were applied to this field for the 1997 potato crop?
 [If none, go to item 6.]

EDIT TABLE

0201

TTYTYPE

TABLE

2

001

CHECK LIST

Include

Exclude

- Custom Applied Fertilizers
- Fertilizer applied in the fall of 1996 and those applied earlier if this field was fallow in 1996.

- Micronutrients
- Manure

99	OFFICE USE LINES IN TABLE	0213
----	---------------------------	------

LINE	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 POUNDS 12 GALLONS 19 POUNDS of ACTUAL NUTRIENTS	5 When was this applied? 1 BEFORE SEEDING (FALL) 2 BEFORE SEEDING (SPRING) 3 AT SEEDING 4 AFTER SEEDING	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In seed furrow 5 In irrigation water 6 Chisel, injected or knifed in 7 Banded/Sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash					
01	0205	0206	0207	0208	0209	0210	0211	0212
02	0205	0206	0207	0208	0209	0210	0211	0212
03	0205	0206	0207	0208	0209	0210	0211	0212
04	0205	0206	0207	0208	0209	0210	0211	0212
05	0205	0206	0207	0208	0209	0210	0211	0212
06	0205	0206	0207	0208	0209	0210	0211	0212
07	0205	0206	0207	0208	0209	0210	0211	0212
08	0205	0206	0207	0208	0209	0210	0211	0212

T-0	TABLE 000	LINE 00
-----	-----------	---------

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

T- 0	TABLE 000	LINE 00
---------	--------------	------------

6. Was a--
 a. **soil test** performed on this field in 1996 or 1997 for the 1997 potato crop? YES = 1 CODE
1712

b. **plant tissue test** (performed on this field in 1996 or 1997 for the 1997 potato crop)? YES = 1 1713

7. Was a Nitrogen soil test performed?
 YES - [Enter code 1 and continue.] **NO** - [Go to item 9.] 1714

1 More than the Amount Recommended? 2 Less than the Amount Recommended? 3 Exactly the Amount Recommended?	
--	--

a. Was the amount of Nitrogen applied to this field-- 1715

9. Is **lime** ever applied to this field?
 YES - [Enter code 1 and continue.] **NO** - [Go to item 11.] 1719

a. On average, how many years are there between applications of **lime** to this field? 1720

b. How many tons of **lime** were applied per acre the last time it was applied to this field? 1721

11. Was **sulfur** applied to this potato field for the 1997 crop?
 YES - [Enter code 1 and continue.] **NO** - [Go to Item 12.] 1729

a. How many pounds were applied per acre? 1730

12. Were **micro-nutrients** applied to this potato field for the 1997 crop?
 YES - [Enter code 1 and continue.] **NO** 1731

D PESTICIDE APPLICATIONS --- SELECTED FIELD D

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 1997 potato crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1997 potato crop?

[Probe for applications made in the fall of 1996 (and those made earlier if this field was fallow).]

YES - [Continue.] NO - [Go to Section E.]

EDIT TABLE

0301

CHECK LIST

<input type="checkbox"/> Include	<input type="checkbox"/> Exclude
<input type="checkbox"/> Defoliant	<input type="checkbox"/> Fungicides
<input type="checkbox"/> Herbicides	<input type="checkbox"/> Insecticides
<input type="checkbox"/> All other pesticides	<input type="checkbox"/> Fertilizers reported earlier
	<input type="checkbox"/> Seed Treatments

T-TYPE

3

TABLE

001

99 OFFICE USE LINES IN TABLE 0319

NOTES	LINE	2 What products were applied to this field? [Use product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D.]	4 Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	5 When was this applied? 1 BEFORE PLANTING 3 AT PLANTING 4 AFTER PLANTING	6 OR 7		8 [Enter unit code.] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
						How much was applied per acre per application ?	What was the total amount applied per application in this	
	01	0305		0306	0307	0308 • _____	0309	0310
	02	0305		0306	0307	0308 • _____	0309	0310
	03	0305		0306	0307	0308 • _____	0309	0310
	04	0305		0306	0307	0308 • _____	0309	0310
	05	0305		0306	0307	0308 • _____	0309	0310
	06	0305		0306	0307	0308 • _____	0309	0310
	07	0305		0306	0307	0308 • _____	0309	0310
	08	0305		0306	0307	0308 • _____	0309	0310
	09	0305		0306	0307	0308 • _____	0309	0310
	10	0305		0306	0307	0308 • _____	0309	0310
	11	0305		0306	0307	0308 • _____	0309	0310

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

LINE	Pesticide Type (Herbicide, Insecticide Fungicide, etc.)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask only if EPA No. cannot be reported.]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

D PESTICIDE APPLICATIONS --- SELECTED FIELD D

APPLICATION 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 air (<i>Aerial application</i>)	8 Foliar or Directed spray
4 In Seed Furrow	9 Spot treatments
5 In Irrigation water	



LINE	9 How was this product applied? <small>[Enter code from above.]</small>	10 How many acres in this field were treated with this product? ACRES	11 What was the number of times applied? NUMBER	12 What was the PRIMARY target pest for this application? <small>[Use Target Pest codes from Respondent Booklet.]</small>	13 This year, was the problem of this pest-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	14 Were these applications made by-- 1 Operator, Partner or Family member? 2 Custom applicator? 3 Employee / Other?
01	0311	0312 .	0313	0314	0315	0316
02	0311	0312 .	0313	0314	0315	0316
03	0311	0312 .	0313	0314	0315	0316
04	0311	0312 .	0313	0314	0315	0316
05	0311	0312 .	0313	0314	0315	0316
06	0311	0312 .	0313	0314	0315	0316
07	0311	0312 .	0313	0314	0315	0316
08	0311	0312 .	0313	0314	0315	0316
09	0311	0312 .	0313	0314	0315	0316
10	0311	0312 .	0313	0314	0315	0316
11	0311	0312 .	0313	0314	0315	0316

T-TYPE	TABLE	LINE
0	000	00

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

- Now I have some questions about pest management decisions and practices used on this field for the 1997 potato crop. **By pests, we mean WEEDS, INSECTS and DISEASES.**
- Let's begin with questions about scouting this field for pests.

1	2 Was the potato field scouted for-- [column 1] YES=1	③ [For rows with YES =1, ask--] Was most of the scouting for [column 1] done by-- 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? CODE
a. weeds	0325	0326
b. insects	0327	0328
c. diseases	0329	

- [If field was SCOUTED ask--; else go to item 6.]

Were written or electronic records kept for this **potato** field to track the **activity or numbers** of weeds, insects or diseases?

- YES** - [Enter code 1 and continue.] **NO** - [Go to item 6.]

CODE 1733

- [If YES, ask--]

Which pests did you keep records on--
[Use Target Pest codes in Respondent Booklet.] ...

ENTER TARGET PEST CODES			
1734	1735	1736	1737

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

6. [Enumerator Action: Were **HERBICIDES** used (*pesticide product codes 4000-4999*), Section D, item 1 column 2?

YES - [Continue.] NO - [Go to item 12.]

7. Did you apply herbicides to the potato field BEFORE weeds emerged?

YES - [Enter code 1 and continue.] NO - [Go to item 9.]

CODE

1738

8. Did you decide to use **pre-emergence** herbicides based on--

- a. a routine treatment for weed problems experienced in previous years? YES = 1
- b. field mapping of previous weed problems? YES = 1
- c. recommendations from a chemical dealer? YES = 1
- d. recommendations from an independent crop consultant? YES = 1

1739

1740

1741

1742

9. Did you apply herbicides to this field AFTER weeds emerged?

YES - [Enter code 1 and continue.] NO - [Go to item 12.]

1743

10. Did you decide to use **post-emergence** herbicides based on--

- a. a routine treatment? YES = 1
- b. type and/or density of weed(s) present? YES = 1
- c. recommendations from a chemical dealer? YES = 1
- d. recommendations from an independent crop consultant? YES = 1

1744

1745

1746

1747

12. [Enumerator Action: Were **INSECTICIDES** used (*pesticide product codes 1000-1999*), Section D, item 1 column 2?

YES - [Continue.] NO - [Go to item 14.]

13. Did you decide to apply insecticides to the potato field based on--

- a. a preventive schedule? YES = 1
- c. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1
- d. standard practices or history of insect problems? YES = 1
- e. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? YES = 1
- f. your (the operator's) own determination of the infestation level? YES = 1

1749

1751

1752

1753

1754

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

- | | | CODE |
|--|--|------|
| 14. Was this potato field cultivated for weed control during the growing season? YES = 1 | | 1755 |
| 15. Were -- | | |
| a. planting or harvesting dates adjusted on this field to reduce (or control) pests? YES = 1 | | 1756 |
| b. pesticides alternated from year to year on this field to control pests? (<i>Use pesticides from different families.</i>) YES = 1 | | 1758 |
| 16. Was (were)-- | | |
| a. a biological soil analysis done on this field to detect the presence of soil pests, such as insects, diseases or nematodes? YES = 1 | | 1771 |
| b. beneficial insects considered in selecting and using pesticides on this field? YES = 1 | | 1772 |
| 17. Were -- | | |
| a. beneficial insects purchased and released in this potato field? YES = 1 | | 1776 |

19. **What was your primary outside source of information on pest management recommendations for the 1997 potato crop?**
[Use Pest Management Information Sources code List.]

**PEST MANAGEMENT INFORMATION SOURCES
CODE LIST**

- 1 **Extension Advisor, Publications or Demonstrations**
(County, Cooperative or University)
- 2 **Farm Supply or Chemical Dealer**
- 3 **Commercial Scouting Service**
- 4 **Crop Consultant or Pest Control Advisor**
- 5 **Other Growers or Producers**
- 6 **Producer Associations, Newsletters or Trade Magazines**
- 7 **Electronic Information Services** (*World Wide Web, DTN, etc.*)
- 8 **Other**
- 9 **None**

[Choose one and enter code.]

1779

- | | | CODE |
|--|--|------|
| 21. Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides? YES = 1 | | 0398 |

OFFICE USE

0399

G IRRIGATION---SELECTED FIELD

	ACRES
1. How many acres in this field were irrigated for the 1997 potato crop? [If none, go to conclusion.]	1782
2. Now, I have some questions about the irrigation of this field for the 1997 potato crop.	
a. What type of irrigation system was used to irrigate this field? [Ask Respondent to look at System Type Codes in the Respondent Booklet. Enter System Type Code for system covering the most field acres.]	SYSTEM TYPE CODE 1783
b. What was the total number of inches of water applied per acre to this field during the entire growing season? (Include ALL water used from both on-farm and off-farm sources.)	INCHES PER ACRE 1784
c. [Ask only if operator cannot provide item 2b; else go to item 2d.] What is the total number of hours that water was applied to this field during the growing season?	TOTAL HOURS 1785
(1) How many gallons per minute were applied?	GALLONS PER 1786
d. What percent of ALL water applied to this field came from surface water sources?	PERCENT 1787
e. What was the number of times this field was irrigated during the growing season?	NUMBER 1788
3. Was any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.)	
<input type="checkbox"/> YES - [Enter code 1 and continue.] <input type="checkbox"/> NO - [Go to item 7.]	CODE 1789
a. What percent of the water used on this field was purchased?	PERCENT 1790
7. Were wells used to supply irrigation water for this field?	
<input type="checkbox"/> YES - [Enter code 1 and continue.] <input type="checkbox"/> NO - [Go to conclusion.]	CODE 1791
e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1997?	TOTAL DOLLARS 1792

CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of potatoes on this map.

What county is the selected potato field in? _____

OFFICE USE-- COUNTY FIPS CODE
0021

[ENUMERATOR ACTION: *Mark the map to indicate where the selected potato field is located. Be sure the "X" you mark on the map is in this county.*

[Offer survey results or other Agency publications. Thank the respondent, then review this questionnaire.]

RESPONDENT		CODE
	1 Operator/manager/partner 2 Spouse 3 Accountant/bookkeeper 4 Other	0101
Respondent's name [if code 3 or 4]	_____	
Phone	(_____) _____	
RECORDS USE		
Did the respondent use farm/ranch records to report fertilizer data?	YES = 1	0107
Did the respondent use farm/ranch records to report pesticide data?	YES = 1	0108
SUPPLEMENTS USED		NUMBER
Record the total number of each type of supplement used to complete this interview.	FERTILIZER APPLICATIONS	0113
	PESTICIDE APPLICATIONS	0114
	FIELD OPERATIONS	0115
ENDING TIME [MILITARY]		0005
DATE:		0007
ENUMERATOR _____		0098
		EVALUATION 0100