



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

U.S. Department of Agriculture
Rm 5805, South Building
1400 Independence Avenue, S.W.
Washington, D.C. 20250-2000
202-720-7017

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
POTATO PRODUCTION
PRACTICES REPORT
for 1998**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 9/30/99
Project Code 906
Phase II

VERSION 09	POID _ _ _ _ _	TRACT _ _ _	SUBTRACT _ _ _	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMP	0910
5 - OUT OF SCOPE	
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]

[Verify/update label.]

**[ENUMERATOR NOTE:
If box code 1, complete
Screening Supplement.
If box is blank, begin Section A.]**

SCREENING BOX

Office Use Comp Code	<input type="text" value="0008"/>			
PARTNERS' STRATUM 182	<input type="text" value="0925"/>	<input type="text" value="0926"/>	<input type="text" value="0927"/>	<input type="text" value="0928"/>

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

A POTATO FIELD SELECTION

A

1. How many acres of potatoes did this operation plant for the 1998 crop year?

[> If no acres planted, review Phase I Information Form. Make notes, then go to item 3 of Conclusion, back page.

TOTAL
PLANTED ACRES

0024

3. I will follow a simple procedure to make a random selection from the potato fields planted for the 1998 crop.

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

TOTAL NUMBER
OF FIELDS

0029

[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 Supplement.]

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

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

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

OFFICE USE

0031

A POTATO FIELD SELECTION

A

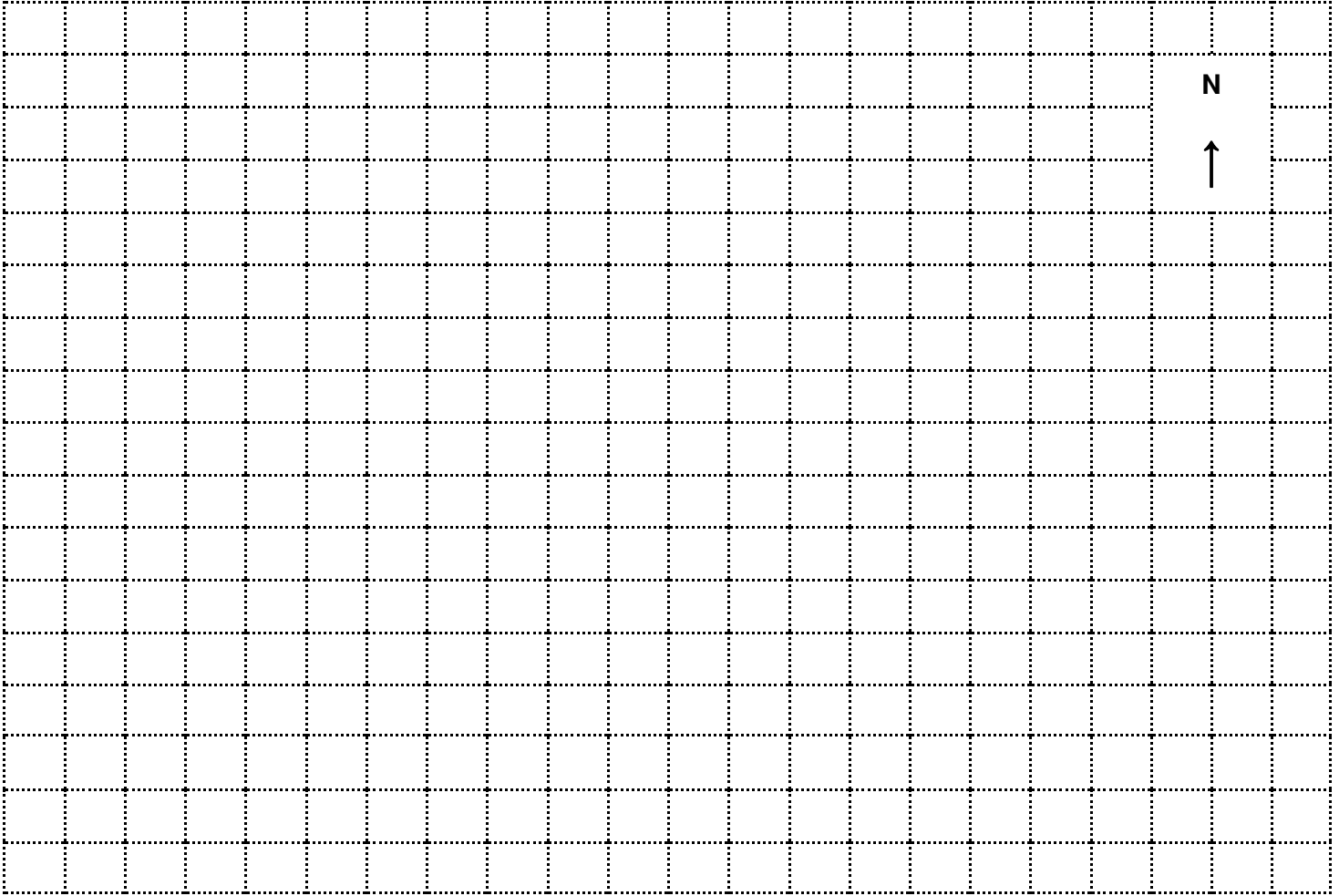
APPLY "RANDOM NUMBER" LABEL HERE

5. [ENUMERATOR ACTION: *Circle the pair of numbers on the above label associated with the last numbered field in item 4. Select the field according to the number you circled on the label, and record the selected number.*]

RECORD SELECTED NUMBER HERE

0030

6. The field selected is (*field name/number/description*).
During this interview, my questions will be about this selected potato field.
[Be sure the operator can identify the selected field.]



B FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of potatoes did this operation plant in the selected field in 1998?

ACRES
1901
. ____

2. How many acres in this field were--

ACRES
1902
. ____
1903
. ____
1904
. ____
1905
. ____

a. owned by this operation?

b. rented for CASH?

c. SHARE rented?

d. used RENT-FREE?

5. [If any acres in field RENTED, ask--]

What year did you start renting this field?

YEAR
1906

a. Do you EXPECT to be renting this same field for the next 5 years (through the 2003 crop year)? YES = 1

CODE
1907

10. On what date was this field planted?

MM DD YY
1909

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

UNITS PER ACRE
1910
. ____

UNIT CODE
1=POUNDS
2=CWT.
4=BUSHEL
5=BARRELS
25=KERNELS/SEEDS
1911

13. Was the source of the potato seed--

CODE
1914

1 Purchased? - [Enter code 1; continue.]

2 Homegrown or traded? - [Enter code 2; go to item 20.]

3 Both? - [Enter code 3; continue.]

B **FIELD CHARACTERISTICS---SELECTED FIELD****B**

16. [If any seed purchased, ask--; else go to item 20.]

Which type of potato seed variety was used--

a. in this field in 1998?

[Use Seed Type Code List.]

CODE
1915

b. in this field in 1997?

[Use Seed Type Code List.]

[Leave blank if different commodity planted in 1997.]

CODE
1916**SEED TYPE - POTATOES**

- 3 Bt variety for **insect resistance**
- 5 Potato **scab-resistant** variety
- 6 *DID NOT plant a resistant variety*

17. [If used **RESISTANT** seed, ask--]**Seed varieties may offer several benefits.****Did you choose the resistant seed variety used on this field primarily to--**

- 1 Increase yields through improved pest (*weed, insect or disease*) control?
- 2 Decrease pesticide input costs?
- 3 Increase planting flexibility, (*for example, easier to rotate crops, reduce carryover, use reduced tillage or no-till systems, etc.*)?
- 4 Adopt more environmentally friendly practices?
- 5 For some other reason(s)?

CODE

1917

B FIELD CHARACTERISTICS---SELECTED FIELD**B**

CODE

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

1918

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

1	2		3
How many acres in the potato field were (will be)--	What yield per acre did you get (do you expect to get) for--		UNIT CODE
	ACRES	UNITS PER ACRE	1=POUNDS 2=CWT 3=TONS 4=BUSHEL 5=BARRELS
a. harvested for potatoes?	1919 . ____	1920 . ____	1921
c. harvested for seed for planting?	1924 . ____	1925 . ____	1926
d. abandoned?	1927 . ____		
e. other use?	1928 . ____		

**CROP CODE LIST for item 25
PREVIOUSLY PLANTED CROP was--**

1 Alfalfa hay	281 Cotton, Upland	16 Peanuts	26 Soybeans
190 Barley	282 Cotton, Pima	17 Dry Peas	28 Sugarbeets
3 Dry Beans	302 CRP	20 Potatoes	30 Sunflowers
85 Canola	311 Grasses other than clover	21 Rice	142 Vegetables
310 Clover	11 Hay, all other	22 Rye	163 Wheat, durum
6 Corn for grain	94 Mustard	98 Safflower	164 Wheat, other spring
5 Corn for silage	15 Oats	25 Sorghum for grain	165 Wheat, winter
		24 Sorghum for silage	318 <i>No crop planted during this period</i>

25. 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--	Was this crop irrigated on this field?	
	CROP NAME	CROP CODE
a. FALL of 1997?		1929
b. SPRING/SUMMER of 1997? ..		1931
c. FALL of 1996?		1933
d. SPRING/SUMMER of 1996? ..		1935
e. FALL of 1995?		1937
f. SPRING/SUMMER of 1995? ..		1939

26. [If most recent crop 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

1941

B FIELD CHARACTERISTICS---SELECTED FIELD**B**

1	2	3
27. Did your land-use practices for this field include--	In what year were the (column 1)'s established in this field?	How much of the cost of building the (column 1)'s was paid directly by you?
CODE	YEAR	PERCENT
a. terraces? YES = 1	1942 1943 _____	1944 _____
b. temporary or permanent levees? . YES = 1	1945 1946 _____	1947 _____
c. grassed waterways? YES = 1	1948 1949 _____	1950 _____
d. contour farming? YES = 1	1951	
e. strip cropping? YES = 1	1952	
f. underground outlets such as tile drainage? YES = 1	1953	
g. other drainage channels or diversions? (Include water furrows) YES = 1	1954	

- CODE**
28. Has the Natural Resource Conservation Service
or NRCS classified any part of this field as "Highly Erodible"? YES = 1
29. Have you been notified by NRCS that this field contains a wetland? YES = 1
30. Have you received assistance from NRCS in 1998 for planning
or installation of conservation practices or systems on this field? YES = 1
31. Have you received financial cost-sharing assistance from the
Farm Service Agency (*formerly ASCS*) in 1998 for installation
of conservation practices or systems on this field? YES = 1

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 1998 potato crop? *[If none, go to item 5.]* YES=1

CODE	EDIT TABLE
1959	0201

TTYPE	TABLE
2	001

CHECK LIST	
INCLUDE	EXCLUDE
Custom Applied Fertilizers	Micronutrients
Fertilizer applied in the fall of 1997 and those applied earlier if this field was fallow in 1997	Manure

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

LINE	2 → → → MATERIALS USED <i>[Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]</i>			3 What quantity was applied per acre? <i>[Leave this column blank if actual nutrients were reported.]</i>	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-TYPE	TABLE	LINE
0	000	00

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

T-TYPE	TABLE	LINE
0	000	00

4. *[If Nitrogen was applied, ask--]*
Did you use any product to slow the breakdown of Nitrogen on this field?
(For example a nitrification inhibitor such as N-Serve or urease inhibitor such as Agrotin) YES = 1 CODE
1960

5. **Was a--**
 a. **soil test** performed on this field in 1997 or 1998
 for the 1998 potato crop? YES = 1 CODE
1961

b. **plant tissue test** performed on this field in 1997 or 1998
 for the 1998 potato crop? YES = 1 CODE
1962

6. **Was a Nitrogen soil test performed on this field?**
 YES - *[Enter code 1 and continue.]* **NO** - *[Go to item 7.]* CODE
1963

a. **Was the amount of Nitrogen applied to this field--** CODE
1964

1	More than the amount recommended?
2	Less than the amount recommended?
3	Exactly the amount recommended?

7. **Is lime ever applied to this field?**
 YES - *[Enter code 1 and continue.]* **NO** - *[Go to item 8.]* CODE
1965

a. On average, how many years are there between applications
 of **lime** to this field? YEARS
1966

b. How many tons of **lime** were applied per acre
 the last time it was applied to this field? TONS PER ACRE
1967

Notes and Calculations:

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 1998 potato crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 potato crop? YES=1
 [Probe for applications made in the fall of 1997 (and those made earlier if this field was fallow).]

[If none, go to Section E.]

CODE
1978
OFFICE USE EDIT TABLE
0301

Check List	
Include	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	TABLE
3	001

LINE 99	OFFICE USE LINES IN TABLE	0319
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NOTES	LINE	2	3	4	5	6 OR 7		8
		What products were applied to this field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D.]	Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	How much was applied per acre per application ?	What was the total amount applied per application in this	[Enter unit code.] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
	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

T-TYPE	TABLE	LINE
0	000	00

2. [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
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

Notes and Calculations:

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

1. Now I have some questions about your pest management decisions and practices used on this field for the 1998 potato crop. By pests, we mean WEEDS, INSECTS and DISEASES.

2. Let's begin with questions about scouting this field for pests.

<p>1</p> <p>Was this potato field scouted for--</p>	<p>2</p> <p>[If YES, ask--] Was most of the scouting for [column 1] done by--</p> <p>1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout?</p> <p>CODE</p>
YES=1	
a. weeds?	1979 1980
b. insects?	1981 1982
c. diseases?	1983

5. [If field was SCOUTED ask--]

Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? YES = 1

CODE
1984

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 11.]

7. Did you apply herbicides to the field BEFORE weeds emerged? CODE
 YES - [Enter code 1 and continue.] NO - [Go to item 9.] YES = 1 1985

8. Did you decide to apply herbicides BEFORE weeds emerged based on--
 a. a routine treatment for weed problems experienced in previous years? YES = 1 1986
 b. field mapping of previous weed problems? YES = 1 1987
 c. recommendations from a *chemical dealer*? YES = 1 1988
 d. recommendations from an *independent crop consultant*? YES = 1 1989

9. Did you apply herbicides to this field AFTER weeds emerged?
 YES - [Enter code 1 and continue.] NO - [Go to item 11.] YES = 1 1990

10. Did you decide to apply herbicides AFTER weeds emerged based on--
 a. a routine treatment? YES = 1 1991
 b. type and/or density of weed(s) present? YES = 1 1992
 c. recommendations from a *chemical dealer*? YES = 1 1993
 d. recommendations from an *independent crop consultant*? YES = 1 1994

11. [Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-1999), Section D, item 1 column 2?
 YES - [Continue.] NO - [Go to item 13.]

12. Did you decide to apply insecticides to this potato field based on--
 a. a preventative schedule? YES = 1 1995
 b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1 1996
 c. standard practices or history of insect problems? YES = 1 1997
 d. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? YES = 1 1998
 e. your (the operator's) own determination of the infestation level? YES = 1 1999

13. Was this potato field cultivated for weed control during the growing season? . . YES = 1 2000

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

14. Were (was)--

- a. planting or harvesting dates adjusted on this field to reduce or control pests? YES=1
- b. pesticides alternated from year to year on this field to control pests? (Use pesticides from different families) YES=1
- c. a biological soil analysis done on this potato field to detect the presence of soil pests, such as insects, diseases or nematodes? YES= 1
- d. beneficial insects considered in selecting and using pesticides on this field? YES= 1
- e. beneficial insects purchased and released in the potato field? YES= 1

17. [Show Pest Management Information Sources codes in Respondent Booklet.]

What was your primary outside source of information on pest management recommendations for the 1998 potato crop?

**PEST MANAGEMENT INFORMATION SOURCES
CODE LIST [Choose one.]**

- | | |
|---|--|
| 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
(DTN, Internet, World Wide Web, etc.) |
| 8 | Other |
| 9 | None |

[Choose one and enter code.]

18. Have you (the operator) attended any training session on pest identification and management since October 1, 1997? YES = 1

CODE

19. Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides? YES = 1

CODE

OFFICE USE

Notes and Calculations:

G IRRIGATION---SELECTED FIELD

G

	ACRES
1. How many acres in this field were irrigated for the 1998 potato crop? <i>[If none, go to Conclusion.]</i>	2033 _____
2. Now, I have some questions about irrigation systems and water used on this field for the 1998 potato crop.	
a. What type(s) of irrigation system(s) were used to irrigate this field? <i>[Use System Type Codes. Enter System Type Code for system covering the most field acres.]</i>	SYSTEM TYPE CODE 2034
b. What was the total number of inches of water per acre applied to this field during the entire growing season? <i>(Include ALL water used from both on-farm and off-farm sources.)</i>	INCHES PER ACRE 2035
(1) <i>[If operator cannot answer item 2b, ask--; else go to item 2c.]</i> What is the total number of hours that water was applied to this field during the growing season?	TOTAL HOURS 2036
(2) How many gallons per minute were applied?	GALLONS PER MINUTE 2037
c. What percent of ALL water applied to this field came from surface water sources?	PERCENT 2038
d. What was the number of times this field was irrigated during the growing season?	NUMBER 2039
3. Was any water purchased to irrigate this field? <i>(Include landlord's share and purchases from all sources.)</i> YES=1	
<i>[If YES, ask--]</i>	CODE 2040
a. What percent of the water used on this field was purchased?	PERCENT 2041
7. Were wells used to supply irrigation water for this field? YES=1	
<i>[If YES, ask--]</i>	CODE 2042
e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1998?	TOTAL DOLLARS 2043

CONCLUSION

LOCATION OF SELECTED FIELD

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

COUNTY NAME

OFFICE USE--
COUNTY FIPS
CODE

c. What county is the selected potato field in?

	0010
--	------

2. [ENUMERATOR ACTION: *Mark map to indicate where the selected potato field is located. Be sure the "X" marked on map is in county identified above.*]

4. 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/>)

YES = 1

CODE

0099

RECORDS USE

5. [Did respondent use farm/ranch records to report--]

a. [fertilizer data?] YES = 1

0011

b. [pesticide data?] YES = 1

0012

SUPPLEMENTS USED

6. [Record the total number of each type of supplement used to complete this interview.]

FERTILIZER
APPLICATIONS

PESTICIDE
APPLICATIONS

FIELD
OPERATIONS

NUMBER

0020

0021

0022

RESPONDENT

- | | |
|---|--------------------------|
| 1 | OPERATOR/MANAGER/PARTNER |
| 2 | SPOUSE |
| 3 | ACCOUNTANT/BOOKKEEPER |
| 4 | OTHER |

CODE

0101

Respondent's name [if code 3 or 4]

Phone ()

MILITARY TIME

0005

ENDING TIME [MILITARY]

MM DD YY

0007

DATE:

ENUMERATOR ID

0098

ENUMERATOR NAME

EVALUATION

0100
