

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
POTATO PRODUCTION PRACTICES REPORT
for 1996**

U.S. Department of Agriculture
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Washington, D.C. 20250
202-720-7017

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

| CONTACT RECORD | | |
|----------------|------|-------|
| DATE | TIME | NOTES |
| | | |
| | | |
| | | |

| R CODES | |
|--------------------|------|
| 3 - COMPLETED | |
| 4 - SCREENOUT | 0001 |
| 5 - NO TARGET | |
| COMMODITY | |
| 8 - REFUSAL | |
| 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 production practices for field crops 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 state 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: For NRCS samples, complete the items on page 3. If box is code 1, complete the Screening Supplement. If box is not coded, begin with Section C.]

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 |

PARTNERS' STRATUM 182

| | | | |
|-------|-------|-------|-------|
| 0006 | 0007 | 0008 | 0009 |
| _____ | _____ | _____ | _____ |

| | |
|-------|--------------------|
| 0010 | OFFICE USE FOR LSF |
| _____ | _____ |

NOTES:

NRCS SAMPLES ONLY

[Show aerial photograph to respondent, and identify sample point.]

1. Do you make any of the day-to-day decisions for the field containing this point?

- YES** - [Enter code 1 and continue.]
- NO** - [Conclude the interview and ask for Respondent's assistance in locating correct operator.]

| |
|-------------|
| CODE |
| 0011 |

2. What crop was planted for harvest in 1996 in the field containing this point?

.....
(If no crop was grown for harvest, identify 1996 land use. **Include** cover crop, perennial crop, fallow/idle, or any other use. If more than one crop was harvested in 1996, identify the first crop harvested.)

| |
|-------------------|
| OFFICE USE |
| 0012 |

[ENUMERATOR ACTION: *If item 2 crop is **potatoes**, ask Respondent to identify the boundaries of the field containing the sample point. Draw these boundaries. Then go to Section **D**, page 6, and begin the interview. For any other land uses, go to item 2 of Conclusion, back page.]*

C * POTATO * FIELD SELECTION C

APPLY "RANDOM NUMBER" LABEL HERE

3. I will follow a simple procedure to make a random selection from the potato fields planted for the 1996 crop.

What is the total number of potato fields that were planted on this operation?
 [If only 1 field, go to item 5.]

| |
|---------------|
| NUMBER |
| 0050 |

4. Please list these fields according to identifying numbers/names 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 the Field Selection Supplement on page 5.]

- FIELD NUMBER, NAME OR DESCRIPTION**
- 1 _____
 - 2 _____
 - 3 _____
 - 4 _____
 - 5 _____
 - 6 _____
 - 7 _____
 - 8 _____
 - 9 _____

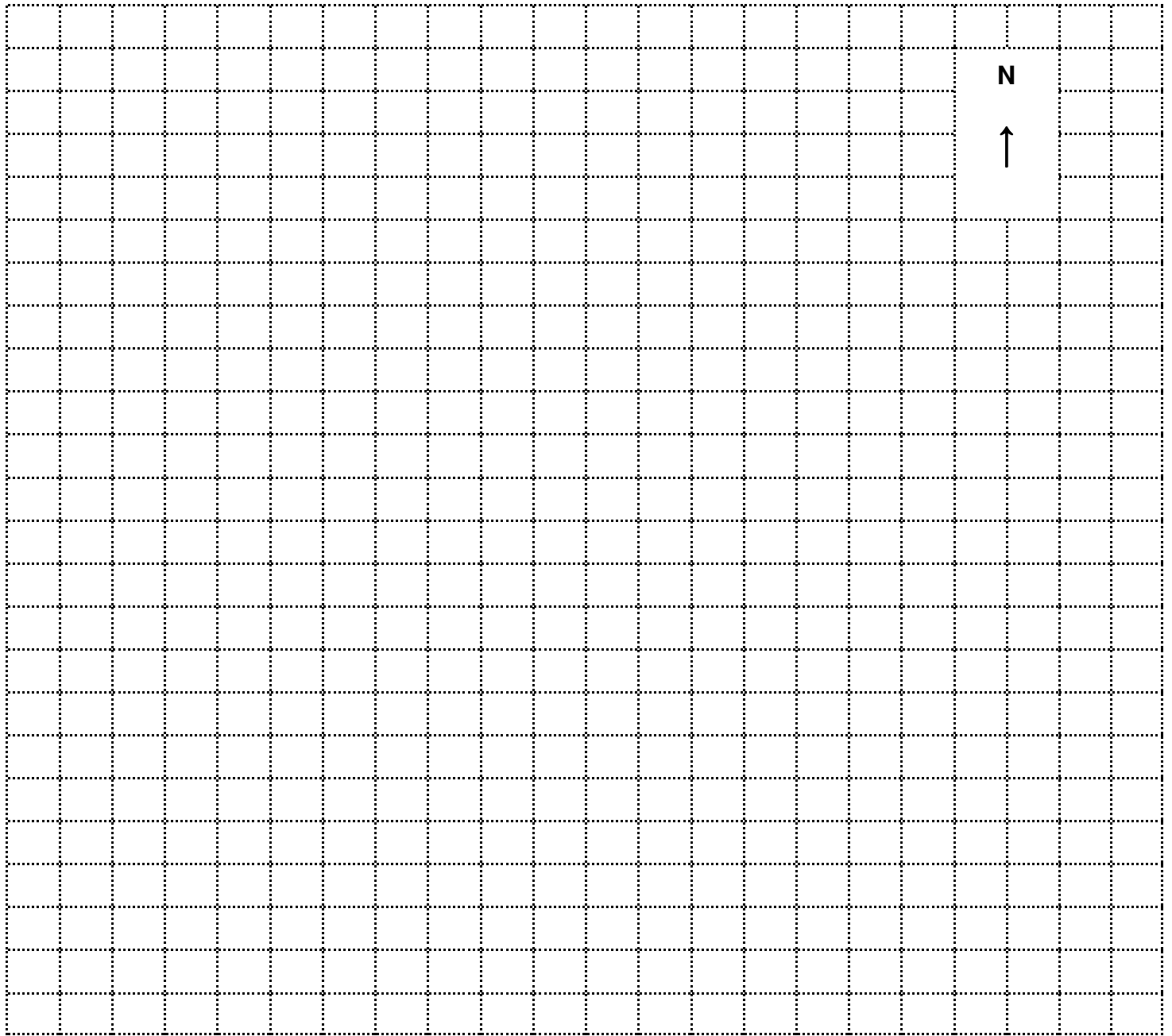
- FIELD NUMBER, NAME OR DESCRIPTION**
- 10 _____
 - 11 _____
 - 12 _____
 - 13 _____
 - 14 _____
 - 15 _____
 - 16 _____
 - 17 _____
 - 18 _____

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. If only 1 field, enter 1.]

| |
|--|
| RECORD SELECTED NUMBER HERE |
| 0051 |

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

FIELD SELECTION SUPPLEMENT



D FIELD CHARACTERISTICS---SELECTED FIELD**D**

| | |
|---|---|
| | ACRES |
| 1. How many acres of potatoes did this operation plant in the selected field in 1996? | 1461 |
| 2. Was this field-- | |
| 1 OWNED BY THIS OPERATION? 2 RENTED FOR CASH ? 3 SHARE RENTED? 4 USED RENT-FREE ? | CODE 1462 |
| 5. On what date was this potato field planted? | MM DD YY 1463 ____ __ 96 |
| | UNIT CODE 2=POUNDS 3=BUSHEL 4=CWT. |
| 8. What was the seeding rate per acre the first time this field was seeded? | RATE PER ACRE 1464 . ____ 1465 |
| 9. Was one of these pest resistant varieties of seed used in this field-- [Show respondent Seed Variety Code List in Respondent Booklet. Choose one and enter code.] | |
| 2 Bt variety for insect resistance <i>(such as Nature Mark)?</i> 4 Potato scab resistance variety <i>(such as Superior)?</i> 5 None of these? | CODE 1466 |
| 10. Was the potato seed treated (<i>by the seed company or the operator</i>) with an insecticide and/or a fungicide? | 1467 |
| 11. Was the source of the potato seed-- | |
| 1 HOME GROWN OR TRADED 2 PURCHASED 3 BOTH | 1468 |
| 13. [If any seed was PURCHASED (item 11 is code 2 or 3), continue; else go to item 14.] What was the cost per unit of the purchased seed for this field? (Include landlord's cost.) | DOLLARS AND CENTS PER UNIT 1469 . ____ ____ UNIT CODE 2=POUNDS 4=BUSHEL 5=CWT. 1470 |

D FIELD CHARACTERISTICS---SELECTED FIELD**D**

| PARTIAL CROP CODE LIST FOR ITEM 17 | | | |
|------------------------------------|-------------------------------|---------------|-------------------------------|
| 1 Alfalfa hay | 5 Corn for silage | 20 Potatoes | 142 Vegetables |
| 190 Barley | 311 Grasses other than clover | 22 Rye | 164 Wheat, other spring |
| 3 Dry Beans | 11 Hay, all other | 26 Soybeans | 165 Wheat, winter |
| 310 Clover | 15 Oats | 28 Sugarbeets | 318 Fallow or Idle (diverted) |
| 6 Corn for grain | 17 Dry peas | 30 Sunflowers | |

17. Next I need to know what crops were previously planted on this field, **including cover crops**.
[If no crop was planted during the period, use code 318. If crop isn't listed in the code table, record the crop name beside the cell and leave the cell blank.]

| 1 | 2 What crop was planted on this field-- [column 1] CODE | 3 Was this crop irrigated on this field? YES=1 |
|------------------------------------|---|--|
| a. in FALL of 1995? | 0103 | 0108 |
| b. in SPRING/SUMMER of 1995? | 0104 | 0109 |
| c. in FALL of 1994? | 0105 | 0110 |
| d. in SPRING/SUMMER of 1994? | 0106 | 0111 |
| e. in SPRING/SUMMER of 1993? | 0107 | 0112 |

18. *[If the most recent crop in item 17 was a SMALL GRAIN, such as barley, oats or wheat ask--]*
 Was crop residue removed from this field
 by baling or removing straw, burning, etc.?

| CODE |
|------|
| 1472 |

YES = 1

D FIELD CHARACTERISTICS---SELECTED FIELD**D**

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

| | | |
|---|---------|------|
| a. grassed waterways? | YES = 1 | 1473 |
| b. terraces? | YES = 1 | 1474 |
| c. contour farming? | YES = 1 | 1475 |
| d. strip cropping? | YES = 1 | 1476 |
| e. underground outlets such as tile drainage? | YES = 1 | 1477 |
| f. other drainage channels or diversions? | YES = 1 | 1478 |

21. Has the Natural Resource Conservation Service or NRCS
(formerly called the Soil Conservation Service or SCS)
classified this field as "Highly Erodible"?

YES = 1 1479

22. Has the NRCS (former SCS) notified you that this field contains a wetland?

YES = 1 1480

23. Was this field covered by crop insurance for the 1996 potato crop?

YES = 1 1481

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

E

1. What FERTILIZERS were applied to this field for the 1996 potato crop? [If none, go to item 3.]
 (Include chemical fertilizers. Include custom applied fertilizers. Include fertilizer applied in the fall of 1995 and those applied earlier if this field was fallow. Exclude micro-nutrients.)

EDIT TABLE

0201

| | |
|-------------|--------------|
| T-TYPE 2 | TABLE 001 |
|-------------|--------------|

| 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? [Show respondent CALENDAR showcard.] MM DD YY | 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 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 . _____ |
| 99 | OFFICE USE NUMBER OF LINES IN TABLE | | | | | | | 0213 |

E FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD E

| T-TYPE | TABLE | LINE |
|--------|-------|------|
| 0 | 000 | 00 |

3. Was a soil test or plant tissue test performed on this field in 1995 or 1996 for the 1996 potato crop?

YES - [Enter code 1 and continue.] **NO** - [Go to item 5.]

CODE

| |
|------|
| 1482 |
|------|

4. Was a Nitrogen test performed?

YES - [Enter code 1 and continue.] **NO** - [Go to item 5.]

| |
|------|
| 1483 |
|------|

a. Was the amount of Nitrogen applied to this field more than, less than, or exactly the amount recommended by the Nitrogen test?

| | |
|---|---|
| 1 | MORE THAN THE AMOUNT RECOMMENDED |
| 2 | LESS THAN THE AMOUNT RECOMMENDED |
| 3 | EXACTLY THE AMOUNT RECOMMENDED |

| |
|------|
| 1484 |
|------|

5. Is lime ever applied to this field?

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

| |
|------|
| 1485 |
|------|

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

YEARS

| |
|------|
| 1486 |
|------|

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

TONS PER ACRE

| | |
|------|--------|
| 1487 | . ____ |
|------|--------|

6. Was sulfur applied to this potato field for the 1996 crop?

YES - [Enter code 1 and continue.] **NO** - [Go to item 7.]

CODE

| |
|------|
| 1488 |
|------|

a. How many pounds were applied per acre?

POUNDS PER ACRE

| | |
|------|--------|
| 1489 | . ____ |
|------|--------|

7. Were micro-nutrients applied to this potato field for the 1996 crop?

CODE

| |
|------|
| 1490 |
|------|

F PESTICIDE APPLICATIONS---SELECTED FIELD F

EDIT TABLE

0301

1. Were any herbicides, insecticides, fungicides or other chemicals used on this field for the 1996 potato crop?
 (Include applications made in the fall of 1995 and those made earlier if this field was fallow. Include custom applied materials. Exclude seed treatment.)

| | |
|--------------------|---------------------|
| T-TYPE 3 | TABLE 001 |
|--------------------|---------------------|

YES - [Continue.] NO - [Go to Section G, page 16.]

| 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? [Show respondent CALENDAR showcard.] MM DD YY | 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 field? | |
| | 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 |
| | 12 | 0305 | | 0306 | 0307 | 0308 | 0309 | 0310 |
| | 13 | 0305 | | 0306 | 0307 | 0308 | 0309 | 0310 |
| | 14 | 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.] |
|-------|---|---|-----------------------------------|--|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

F PESTICIDE APPLICATIONS---SELECTED FIELD**F****APPLICATION CODES for column 9**

| | |
|---|-------------------|
| 1 Broadcast, ground without incorporation | 7 Banded in or |
| 2 Broadcast, ground with incorporation | Over Row |
| 3 Broadcast, by air | 8 Foliar or |
| 4 In Seed Furrow | Directed spray |
| 5 In Irrigation water | 9 Spot treatments |
| 6 Chisel/Injected or Knifed in | |



| L I N E | 9 How was this product applied? | 10 How many acres in this field were treated with this product? ACRES | 11 Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee/Other? | 12 What was the PRIMARY target pest for this application? <i>[Use Pest codes from showcard.]</i> |
|----------------------------|--|--|--|--|
| 01 | 0311 | 0312 • _____ | 0313 | 0314 |
| 02 | 0311 | 0312 • _____ | 0313 | 0314 |
| 03 | 0311 | 0312 • _____ | 0313 | 0314 |
| 04 | 0311 | 0312 • _____ | 0313 | 0314 |
| 05 | 0311 | 0312 • _____ | 0313 | 0314 |
| 06 | 0311 | 0312 • _____ | 0313 | 0314 |
| 07 | 0311 | 0312 • _____ | 0313 | 0314 |
| 08 | 0311 | 0312 • _____ | 0313 | 0314 |
| 09 | 0311 | 0312 • _____ | 0313 | 0314 |
| 10 | 0311 | 0312 • _____ | 0313 | 0314 |
| 11 | 0311 | 0312 • _____ | 0313 | 0314 |
| 12 | 0311 | 0312 • _____ | 0313 | 0314 |
| 13 | 0311 | 0312 • _____ | 0313 | 0314 |
| 14 | 0311 | 0312 • _____ | 0313 | 0314 |

F PESTICIDE APPLICATIONS---SELECTED FIELD F

1. [Pesticide table, continued--]

| 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? [Show respondent CALENDAR showcard.] MM DD YY | 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 field? | |
| | 15 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 16 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 17 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 18 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 19 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 20 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 21 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 22 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 23 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 24 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 25 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| | 26 | 0305 | | 0306 | 0307 _ _ _ _ _ | 0308 _ . _ _ _ | 0309 | 0310 |
| 99 | OFFICE USE NUMBER OF LINES IN TABLE | | | | | | | 0319 |

[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.] |
|-------|---|---|-----------------------------------|--|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

F PESTICIDE APPLICATIONS---SELECTED FIELD F

| APPLICATION CODES for column 9 | |
|---|----------------------------|
| 1 Broadcast, ground without incorporation | 7 Banded in or Over Row |
| 2 Broadcast, ground with incorporation | 8 Foliar or Directed spray |
| 3 Broadcast, by air | 9 Spot treatments |
| 4 In Seed Furrow | |
| 5 In Irrigation water | |
| 6 Chisel/Injected or Knifed in | |



| LINE | 9 | 10 | 11 | 12 |
|------|-------------------------------|--|---|---|
| | How was this product applied? | How many acres in this field were treated with this product? ACRES | Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee/Other? | What was the PRIMARY target pest for this application? [Use Pest codes from showcard.] |
| 15 | 0311 | 0312 . _____ | 0313 | 0314 |
| 16 | 0311 | 0312 . _____ | 0313 | 0314 |
| 17 | 0311 | 0312 . _____ | 0313 | 0314 |
| 18 | 0311 | 0312 . _____ | 0313 | 0314 |
| 19 | 0311 | 0312 . _____ | 0313 | 0314 |
| 20 | 0311 | 0312 . _____ | 0313 | 0314 |
| 21 | 0311 | 0312 . _____ | 0313 | 0314 |
| 22 | 0311 | 0312 . _____ | 0313 | 0314 |
| 23 | 0311 | 0312 . _____ | 0313 | 0314 |
| 24 | 0311 | 0312 . _____ | 0313 | 0314 |
| 25 | 0311 | 0312 . _____ | 0313 | 0314 |
| 26 | 0311 | 0312 . _____ | 0313 | 0314 |

| | | |
|--------|-------|------|
| T-TYPE | TABLE | LINE |
| 0 | 000 | 00 |

2. [If application code in column 9 is 1, 2, 7, 8 or 9, ask-]
 What was the boom height of the sprayer the first time it was used to apply pesticides on the potato field?

INCHES

| |
|------|
| 1491 |
|------|

G PEST MANAGEMENT PRACTICES--SELECTED FIELD

G

- Now I have some questions about your pest management decisions and practices used on this field for the 1996 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 Crop consultant or Commercial scout? CODE |
|-------------------|--|---|
| a. weeds | 0226 | 0229 |
| b. insects | 0227 | 0230 |
| c. diseases | 0228 | |

3. [Ask only if column 3 of item 2 is code 4; else go to item 5.]
How much did you pay for the scouting services for this field? [**Include** landlord cost.]

| | DOLLARS AND CENTS PER ACRE | OR TOTAL DOLLARS |
|-------|-------------------------------|------------------|
| | 1492 . ____ | 1493 |

5. [Ask only if field was SCOUTED (column 2 of item 2 is code 1); else go to item 6.]
Were written or electronic records kept for this field to track the **activity or numbers** of--

| | | CODE |
|---------------------------|---------|------|
| a. broadleaf weeds? | YES = 1 | 1494 |
| b. grass weeds? | YES = 1 | 1495 |
| c. insects? | YES = 1 | 1496 |

6. [Ask only if HERBICIDES (pesticide codes 4000 - 4999) were entered in Section F, item 1, column 2; else go to item 12.]
Did you apply herbicides to this field BEFORE weeds emerged?

YES - [Enter code 1 and continue.] **NO** - [Go to item 8.]

| | |
|--|------|
| | 1497 |
|--|------|

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

| | | |
|---|---------|------|
| a. a routine treatment for weed problems experienced in previous years? | YES = 1 | 1498 |
| b. field mapping of previous weed problems? | YES = 1 | 1499 |
| c. a computerized decision model? | YES = 1 | 1500 |
| d. recommendations from an independent crop consultant? | YES = 1 | 1501 |

G PEST MANAGEMENT PRACTICES--SELECTED FIELD

G

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

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

| |
|-------------|
| CODE |
| 1502 |

9. 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. a computerized decision model? **YES = 1**
 d. recommendations from an independent crop consultant? **YES = 1**

| |
|------|
| 1503 |
| 1504 |
| 1505 |
| 1506 |

12. Did you decide **to apply OR not apply** insecticides to the potato field based on--

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

| |
|------|
| 1507 |
| 1508 |
| 1509 |
| 1510 |

13. Was this potato field cultivated for weed control during the growing season?

- YES** - [Enter code 1 and continue.] **NO** - [Go to item 15.]

| |
|------|
| 1511 |
|------|

a. When was this potato field cultivated? [Show respondent **CALENDAR** showcard and enter first 3 cultivation dates.]

| |
|-----------------|
| MM DD YY |
| 1512 ____ _ |
| 1513 ____ _ |
| 1514 ____ _ |

15. Did you--

- a. reduce (or help control) pests by adjusting planting or harvesting dates on this potato field? **YES = 1**
 b. control pest resistance by alternating pesticides on this field from year to year? (Use pesticides with different active ingredients.) **YES = 1**

| |
|-------------|
| CODE |
| 1515 |
| 1516 |

16. Did you--

- a. have a biological soil analysis done on this field to detect the presence of soil pests, such as insects, diseases or nematodes? **YES = 1**
 b. consider beneficial insects in selecting and using pesticides on this field? **YES = 1**

| |
|------|
| 1517 |
| 1518 |

G PEST MANAGEMENT PRACTICES--SELECTED FIELD

G

17. Did you--

- a. purchase and release beneficial insects in this potato field? YES = 1 CODE
1519

- d. use pheromone lures in this field to--
 - (1) monitor pests by trapping? YES = 1 1520
 - (2) control pests by disrupting mating? YES = 1 1521

19. What was your primary outside source of information on pest management recommendations for the 1996 potato crop?
 [Ask the respondent to look at Pest Management Information Sources Code List in Respondent Booklet. Choose one and enter code.]

**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 **Television or Radio Programs, Newspapers**
- 8 **Electronic Information Services** (*World Wide Web, DTN, etc.*)
- 9 **Other**
- 10 **None**

CODE
1522

21. Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides? YES = 1 0286

OFFICE USE
0015

IRRIGATION--SELECTED FIELD

| | |
|---|--|
| <p>1. How many acres in the potato field were irrigated for the 1996 crop? <i>[If none, go to Conclusion, back page.]</i></p> | <p>ACRES</p> <div style="border: 1px solid black; padding: 2px;">1523</div> |
| <p>2. b. What was the total number of inches of water applied per acre to this field during the entire growing season? <i>(Include ALL water used from both on-farm and off-farm sources.)</i></p> | <p>INCHES PER ACRE</p> <div style="border: 1px solid black; padding: 2px;">1524</div> |
| <p>c. <i>[Ask only if operator cannot provide item b; else go to item 2d.]</i> What is the total number of hours that water was applied to this field during the growing season?</p> | <p>TOTAL HOURS</p> <div style="border: 1px solid black; padding: 2px;">1525</div> |
| <p>(1) How many gallons per minute were applied?</p> | <p>GALLONS PER</p> <div style="border: 1px solid black; padding: 2px;">1526</div> |
| <p>d. What percentage of ALL water applied to this field was applied after planting?</p> | <p>PERCENT</p> <div style="border: 1px solid black; padding: 2px;">1527</div> |
| <p>e. What percentage of ALL water applied to this field came from surface water sources?</p> | <p>PERCENT</p> <div style="border: 1px solid black; padding: 2px;">1528</div> |
| <p>f. What was the number of times this field was irrigated during the growing season?</p> | <p>NUMBER</p> <div style="border: 1px solid black; padding: 2px;">1529</div> |
| <p>(1) How many of these irrigations occurred after planting?</p> | <div style="border: 1px solid black; padding: 2px;">1530</div> |
| <p>3. Was any water purchased to irrigate this field? <i>(Include landlord's share. Include purchases from all sources.)</i></p> <p><input type="checkbox"/> YES - <i>[Enter code 1 and continue.]</i> <input type="checkbox"/> NO - <i>[Go to item 7.]</i></p> | <p>CODE</p> <div style="border: 1px solid black; padding: 2px;">1531</div> |
| <p>a. What percentage of the water used on this field was purchased?</p> | <p>PERCENT</p> <div style="border: 1px solid black; padding: 2px;">1532</div> |
| <p>b. What was the total cost for the water purchased for this field during the 1996 growing season? <i>(Include landlord's cost.)</i></p> | <p>DOLLARS</p> <div style="border: 1px solid black; padding: 2px;">1533</div> |
| <p>7. Were wells used to supply irrigation water for this field?</p> <p><input type="checkbox"/> YES - <i>[Enter code 1 and continue.]</i> <input type="checkbox"/> NO - <i>[Go to Conclusion, back page.]</i></p> | <p>CODE</p> <div style="border: 1px solid black; padding: 2px;">1534</div> |
| <p>d. What was the total cost for fuel and power used to pump irrigation water from wells for this field in 1996? <i>(Include landlord's cost.)</i></p> | <p>TOTAL DOLLARS</p> <div style="border: 1px solid black; padding: 2px;">1535</div> |

CONCLUSION

LOCATION OF SELECTED FIELDS

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

| |
|----------------------------------|
| OFFICE USE-- COUNTY FIPS CODE |
| 0021 |

What county is the selected potato field in? _____

[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.]*

2. Reporting the operator's Social Security and Federal Employer Identification number is voluntary. The authority to request them is Title 7, Section 2204 of the U.S. Code. These numbers will be used only within the National Agricultural Statistics Service for identification.

| | |
|-------------|-----------------------|
| 0022 | OPERATOR'S SSN |
| _ _ - _ - _ | _ _ - _ - _ |

| | |
|-------------|----------------------|
| 0023 | OPERATION EIN |
| _ _ - _ - _ | _ _ - _ - _ |

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

| | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--------------------------------|---------------------------------|-------|------|------|---|---------------|-------|--|--|---|------------------------------|-------|--|--|---|--------------|-------|--|--|--|
| RESPONDENT | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center; padding: 2px;">1</td> <td style="padding: 2px;">OPERATOR/MANAGER/PARTNER</td> <td style="width: 10%; text-align: center; padding: 2px;">.....</td> <td style="width: 10%; text-align: center; padding: 2px;">CODE</td> <td style="width: 15%; border: 1px solid black; text-align: center; padding: 2px;">0025</td> </tr> <tr> <td style="text-align: center; padding: 2px;">2</td> <td style="padding: 2px;">SPOUSE</td> <td style="padding: 2px;">.....</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; padding: 2px;">3</td> <td style="padding: 2px;">ACCOUNTANT/BOOKKEEPER</td> <td style="padding: 2px;">.....</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center; padding: 2px;">4</td> <td style="padding: 2px;">OTHER</td> <td style="padding: 2px;">.....</td> <td></td> <td></td> </tr> </table> | 1 | OPERATOR/MANAGER/PARTNER | | CODE | 0025 | 2 | SPOUSE | | | | 3 | ACCOUNTANT/BOOKKEEPER | | | | 4 | OTHER | | | | |
| 1 | OPERATOR/MANAGER/PARTNER | | CODE | 0025 | | | | | | | | | | | | | | | | | | |
| 2 | SPOUSE | | | | | | | | | | | | | | | | | | | | | |
| 3 | ACCOUNTANT/BOOKKEEPER | | | | | | | | | | | | | | | | | | | | | |
| 4 | OTHER | | | | | | | | | | | | | | | | | | | | | |
| Respondent's name [if code 3 or 4] | _____ | | | | | | | | | | | | | | | | | | | | | |
| Phone | (_____) _____ | | | | | | | | | | | | | | | | | | | | | |
| RECORDS USE | | | | | | | | | | | | | | | | | | | | | | |
| Did the respondent use farm/ranch records to report fertilizer data? | YES = 1 | | | 0027 | | | | | | | | | | | | | | | | | | |
| Did the respondent use farm/ranch records to report chemical data? | YES = 1 | | | 0028 | | | | | | | | | | | | | | | | | | |
| SUPPLEMENTS USED | | | | | | | | | | | | | | | | | | | | | | |
| Record the total number of each type of supplement used to complete this interview. | | | NUMBER | | | | | | | | | | | | | | | | | | | |
| | | FERTILIZER APPLICATIONS | | 0033 | | | | | | | | | | | | | | | | | | |
| | | CHEMICAL APPLICATIONS | | 0034 | | | | | | | | | | | | | | | | | | |
| ENDING TIME [MILITARY] | | | | 0037 | | | | | | | | | | | | | | | | | | |
| | | | MM DD YY | | | | | | | | | | | | | | | | | | | |
| DATE: | | | | 0038 | | | | | | | | | | | | | | | | | | |
| | | | ENUMERATOR ID | | | | | | | | | | | | | | | | | | | |
| ENUMERATOR | | | | 0039 | | | | | | | | | | | | | | | | | | |
| | | | EVALUATION | | | | | | | | | | | | | | | | | | | |
| | | | | 0040 | | | | | | | | | | | | | | | | | | |