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

We are collecting information on practices to produce spring wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Spring Wheat 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.
1. How many acres of spring wheat 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
   spring wheat fields planted for the 1997 crop.

   What is the TOTAL number of spring wheat 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
   10
   11
   12
   13
   14
   15
   16
   17
   18

   OFFICE USE
   0124
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.

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

FIELD SELECTION GRID

```
N
```

APPLY “RANDOM NUMBER” LABEL HERE

RECORD SELECTED NUMBER HERE

0123
1. How many acres of spring wheat did this operation plant in the selected field in 1997?  

2. How many acres in this field were--
   a. owned by this operation?  
   b. rented for CASH?  
   c. SHARE rented?  
   d. used RENT-FREE?  

8. Was a no-till system used to prepare and plant this spring wheat field?  
   □ YES - [Enter code 1 and continue.]  
   □ NO - [Go to item 9.]  
   a. How many consecutive years has no-till been used on this field (regardless of which crop was planted or grown)?  
      [Enter 1 if current year only.]  

9. On what date was this field planted?  

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

12. Was the source of the spring wheat seed--
   1 PURCHASED  
   2 HOMEGROWN OR TRADED  
   3 BOTH
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 spring wheat field.

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>How many acres in the spring wheat field were (will be) harvested for-- [column 1]</td>
<td>What yield per acre did you get (do you expect to get) for--</td>
<td>UNIT CODE</td>
<td></td>
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<tr>
<td></td>
<td>acres</td>
<td>per acre</td>
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<tr>
<td>a. grain?</td>
<td>0024</td>
<td>0025</td>
<td>0026</td>
<td></td>
</tr>
<tr>
<td>b. silage or green chop?</td>
<td>0027</td>
<td>0028</td>
<td>TONS</td>
<td></td>
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<td>c. seed for planting?</td>
<td>0030</td>
<td>0031</td>
<td>0032</td>
<td></td>
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<tr>
<td>h. abandoned?</td>
<td>0045</td>
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<tr>
<td>i. other use?</td>
<td>0046</td>
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</tbody>
</table>
20. Next I need to know what crops were previously PLANTED on this field, including cover crops.

<table>
<thead>
<tr>
<th>1</th>
<th>2 What crop was PLANTED on this field in-- [column 1]</th>
<th>3 Was this crop irrigated on this field?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NAME</td>
<td>CODE</td>
</tr>
<tr>
<td>a.</td>
<td>FALL of 1996?</td>
<td>0072</td>
</tr>
<tr>
<td>b.</td>
<td>SPRING/SUMMER of 1996?</td>
<td>0074</td>
</tr>
<tr>
<td>c.</td>
<td>FALL of 1995?</td>
<td>0076</td>
</tr>
<tr>
<td>d.</td>
<td>SPRING/SUMMER of 1995?</td>
<td>0078</td>
</tr>
<tr>
<td>e.</td>
<td>FALL of 1994?</td>
<td>0080</td>
</tr>
<tr>
<td>f.</td>
<td>SPRING/SUMMER of 1994?</td>
<td>0082</td>
</tr>
</tbody>
</table>

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.? 

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

a. terraces? 

b. contour farming? 

c. temporary or permanent levees? 

d. grassed waterways? 

e. strip cropping? 

f. underground outlets such as tile drainage? 

g. other drainage channels or diversions? (Include water furrows)

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

24. Have you been notified by NRCS that this field contains a wetland?
NOTES and CALCULATIONS:
1. **What commercial FERTILIZERS were applied to this field for the 1997 spring wheat crop?**
   [If none, go to item 6.]

<table>
<thead>
<tr>
<th>Include</th>
<th>Exclude</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Applied Fertilizers</td>
<td>Micronutrients</td>
</tr>
<tr>
<td>Fertilizer applied in the fall of 1996 and those applied earlier if this field was fallow in 1996.</td>
<td>Manure</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIALS USED</th>
<th>3 What quantity was applied per acre?</th>
<th>4 [Enter material unit code.]</th>
<th>5 When was this applied?</th>
<th>6 How was this applied?</th>
<th>7 How many acres were treated in this application?</th>
</tr>
</thead>
<tbody>
<tr>
<td>N Nitrogen</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>ACRES</td>
</tr>
<tr>
<td>P₂O₅ Phosphate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K₂O Potash</td>
<td></td>
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</tbody>
</table>

   **T- TABLE LINE 0000 LINE 00**
### C FERTILIZER and NUTRIENT APPLICATIONS --- SELECTED FIELD

<table>
<thead>
<tr>
<th>T-0</th>
<th>TABLE 000</th>
<th>LINE 00</th>
</tr>
</thead>
</table>

6. Was a--
   a. **soil test** performed on this field in 1996 or 1997 for the 1997 spring wheat crop?  
   YES = 1  
   **CODE** 1582

   b. **plant tissue test** (performed on this field in 1996 or 1997 for the 1997 spring wheat crop)?  
   YES = 1  
   **CODE** 1583

7. Was a Nitrogen soil test performed?
   - **YES** - [Enter code 1 and continue.]
   - **NO** - [Go to item 9.]  
   **CODE** 1584

   a. Was the amount of Nitrogen applied to this field--  
   1 More than the Amount Recommended?  
   2 Less than the Amount Recommended?  
   3 Exactly the Amount Recommended?  
   **CODE** 1585

9. Is **lime** ever applied to this field?
   - **YES** - [Enter code 1 and continue.]
   - **NO** - [Go to Section D.]  
   **CODE** 1589

   a. On average, how many years are there between applications of **lime** to this field?  
   **YEARS** 1590

   b. How many tons of **lime** were applied per acre the last time it was applied to this field?  
   **TONS PER ACRE** 1591
1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 1997 spring wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on this field for the 1997 spring wheat 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.]

<table>
<thead>
<tr>
<th>CHECK LIST</th>
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<tbody>
<tr>
<td>Include</td>
</tr>
<tr>
<td>Defoliants</td>
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<tr>
<td>Herbicides</td>
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<tr>
<td>All other pesticides</td>
</tr>
<tr>
<td>Exclude</td>
</tr>
<tr>
<td>Fungicides</td>
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<tr>
<td>Insecticides</td>
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<tr>
<td>Seed Treatments</td>
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</tbody>
</table>

**EDIT TABLE**

0301

**T-TYPE TABLE**

3 001

**OFFICE USE LINES IN TABLE**

99 0319

### PESTICIDE APPLICATIONS --- SELECTED FIELD

<table>
<thead>
<tr>
<th>LINE</th>
<th>NOTES</th>
<th>What products were applied to this field? [Use product codes from Respondent Booklet.]</th>
<th>What was this product bought in liquid or dry form? [Enter L or D.]</th>
<th>Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]</th>
<th>When was this applied?</th>
<th>How much was applied per acre per application?</th>
<th>OR</th>
<th>What was the total amount applied per application in this</th>
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<tbody>
<tr>
<td>01</td>
<td>0305</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>LINE</th>
<th>Pesticide Type (Herbicide, Insecticide Fungicide, etc.)</th>
<th>EPA No. or Tradename and Formulation</th>
<th>Form Purchased (Liquid or Dry)</th>
<th>Where Purchased [Ask only if EPA No. cannot be reported.]</th>
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</table>

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For the 1997 spring wheat crop, let's list all the chemicals used on this field. Were any herbicides, insecticides, fungicides or other chemicals used on this field for the 1997 spring wheat crop? (Probe for applications made in the fall of 1996 and those made earlier if this field was fallow.)

Include Defoliants, Herbicides, All other pesticides
Exclude Fungicides, Insecticides, Seed Treatments

What products were applied to this field? (Use 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)

1 OR 2. How much was applied per acre per application? (Enter unit code.)

Or 3. What was the total amount applied per application in this crop? (Enter unit code.)

For pesticides not listed in Respondent Booklet, specify—

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.]
**APPLICATION CODES for column 9**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Broadcast, ground without incorporation</td>
</tr>
<tr>
<td>2</td>
<td>Broadcast, ground with incorporation</td>
</tr>
<tr>
<td>3</td>
<td>Broadcast, by air (Aerial application)</td>
</tr>
<tr>
<td>4</td>
<td>In Seed Furrow</td>
</tr>
<tr>
<td>5</td>
<td>In Irrigation water</td>
</tr>
<tr>
<td>6</td>
<td>Chisel/Injected or Knifed in</td>
</tr>
<tr>
<td>7</td>
<td>Banded in or Over Row</td>
</tr>
<tr>
<td>8</td>
<td>Foliar or Directed spray</td>
</tr>
<tr>
<td>9</td>
<td>Spot treatments</td>
</tr>
</tbody>
</table>

**How was this product applied?**

- Enter code from above.

**How many acres in this field were treated with this product?**

- ACRES

**What was the number of times applied?**

- NUMBER

**What was the primary target pest for this application?**

- Use Target Pest codes from Respondent Booklet.

**This year, was the problem of this pest--**

- 1 worse than normal?
- 3 normal?
- 5 less than normal?
- 7 unknown?
- 9 not applicable?

**Were these applications made by--**

- 1 Operator, Partner or Family member?
- 2 Custom applicator?
- 3 Employee / Other?

<table>
<thead>
<tr>
<th>LINE</th>
<th>9 How was this product applied?</th>
<th>10 How many acres in this field were treated with this product?</th>
<th>11 What was the number of times applied?</th>
<th>12 What was the primary target pest for this application?</th>
<th>13 This year, was the problem of this pest--</th>
<th>14 Were these applications made by--</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
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</tbody>
</table>
1. Now I have some questions about pest management decisions and practices used on this field for the 1997 spring wheat crop. **By pests, we mean WEEDS, INSECTS and DISEASES.**

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

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Was the spring wheat field scouted for--</td>
<td>[For rows with YES =1, ask--]</td>
<td>Was most of the scouting for</td>
</tr>
<tr>
<td>[column 1]</td>
<td></td>
<td>[column 1]</td>
</tr>
<tr>
<td>YES=1</td>
<td>CODE</td>
<td>1. Operator, Partner or Family member?</td>
</tr>
<tr>
<td>a. weeds ..........................</td>
<td>0325</td>
<td>1. Operator, Partner or Family member?</td>
</tr>
<tr>
<td>b. insects ..........................</td>
<td>0327</td>
<td>2. an Employee?</td>
</tr>
<tr>
<td>c. diseases ..........................</td>
<td>0329</td>
<td>3. Farm supply or Chemical dealer?</td>
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<tr>
<td></td>
<td></td>
<td>4. Independent Crop consultant or Commercial scout?</td>
</tr>
</tbody>
</table>

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

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

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

a. [If YES, ask--]

Which pests did you keep records on--

[Use Target Pest codes in Respondent Booklet. . . ]
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 spring wheat field BEFORE weeds emerged?

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

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

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

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

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

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

☐ YES - [Continue.] ☐ NO - [Go to item 15.]

13. Did you decide to apply insecticides to the spring wheat 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
15. **Were** --
   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? \(Use \textit{pesticides from different families.}\) \[YES = 1\]
   h. grazing dates adjusted on this wheat field to reduce (or help control) pests? \[YES = 1\]

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? \[YES = 1\]
   b. beneficial insects considered in selecting and using pesticides on this field? \[YES = 1\]

17. **Were** --
   a. beneficial insects purchased and released in this spring wheat field? \[YES = 1\]

19. **What was your primary outside source of information on pest management recommendations for the 1997 spring wheat 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 \(\textit{World Wide Web, DTN, etc.}\)
   - 8 Other
   - 9 None

21. **Have you (the operator) completed courses leading to certification for applying “Restricted Use” pesticides?** \[YES = 1\]
NOTES and CALCULATIONS:
2. Including custom operations, I need to list field work performed by machines on this field for the 1997 spring wheat crop. Please...
   - Begin with the first field operation after harvest of the previous crop,
   - List the operations in order through seeding, and
   - Maintain the order of tandem hook-ups.

### CHECK LIST
Include all field work using machines for--
- Land Forming
- Tillage
- Preparing for Irrigation before seeding
- Planting

Exclude
- Lime & Gypsum applications
- Applying Fertilizers & Pesticides
- Harvesting & Hauling using carts, trailers or wagons

### CODES FOR COLUMN 5
1. You (The Operator)?
2. Partner?
3. Unpaid Worker?
4. Paid Part-time or Seasonal Worker?
5. Paid Full-time Worker?
6. Custom Applicator? (Go to Column 11.)

### CODES FOR COLUMN 5
- 1 You (The Operator)?
- 2 Partner?
- 3 Unpaid Worker?
- 4 Paid Part-time or Seasonal Worker?
- 5 Paid Full-time Worker?
- 6 Custom Applicator? (Go to Column 11.)

### Table

<table>
<thead>
<tr>
<th>SEQUENCE No.</th>
<th>What operation or equipment was used?</th>
<th>CODE</th>
<th>3 (Record machine code from Respondent Booklet)</th>
<th>5 Who was the machine operator-- (Enter code from above)</th>
<th>[If CUSTOM (column 5 = code 6) skip columns 9-10]</th>
<th>In what month was this operation done?</th>
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</table>

1/ For backhoes, disk border maker, ditch closer, dichter, levee-plow disk, quarter drain machine, rear mounted blade and hauling operations, enter total HOURS, not acres. Then leave column 10 blank.
10. Was there (will there be) a yield monitor on the equipment used to harvest this spring wheat field?  

[ ] YES = 1

a. [If YES, ask---] Was (will there be) a yield map produced from this harvest using information from the yield monitor?  

[ ] YES = 1
1. How many acres in this field were irrigated for the 1997 spring wheat crop?
   [If none, go to conclusion.] .........................................................
   ACRES 1652

2. Now, I have some questions about the irrigation of this field for the 1997 spring wheat crop.
   a. What type of irrigation system was used to irrigate this field?
      [Ask Respondent to look at System Type Codes in the Respodent Booklet.
       Enter System Type Code for system covering the most field acres.] ..............
      SYSTEM TYPE CODE 1653

   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 1654

   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 1655

      (1) How many gallons per minute were applied? .............................................
      GALLONS PER 1656

      PERCENT 1657

   d. What percent of ALL water applied to
      this field came from surface water sources? .............................................
   e. What was the number of times this field
      was irrigated during the growing season? .............................................
   3. Was any water purchased to irrigate this field?
      (Include landlord’s share and purchases from all sources.)
      □ YES - [Enter code 1 and continue.] □ NO - [Go to item 7.] .........................
      CODE 1659

      PERCENT 1660

   a. What percent of the water used on this field was purchased? .....................

   7. Were wells used to supply irrigation water for this field?
      □ YES - [Enter code 1 and continue.] □ NO - [Go to conclusion.] .....................
      CODE 1661

      TOTAL DOLLARS 1662

   e. What was the total cost for fuel and power used to
      pump irrigation water from these wells in 1997? .....................................
NOTES and CALCULATIONS:
LOCATION OF SELECTED FIELD

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

What county is the selected spring wheat field in? ______________________________

[ENUMERATOR ACTION:  
Mark the map to indicate where the selected spring wheat 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.]

<table>
<thead>
<tr>
<th>RESPONDENT</th>
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</tr>
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<tbody>
<tr>
<td>1 Operator/manager/partner</td>
<td>0101</td>
</tr>
<tr>
<td>2 Spouse</td>
<td></td>
</tr>
<tr>
<td>3 Accountant/bookkeeper</td>
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</tr>
<tr>
<td>4 Other</td>
<td></td>
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</tbody>
</table>

Respondent's name
[if code 3 or 4] .................................................................

Phone .......................... (________) __________________

RECORDS USE

Did the respondent use farm/ranch records to report fertilizer data? ............ YES = 1

Did the respondent use farm/ranch records to report pesticide data? ............ YES = 1

SUPPLEMENTS USED

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

ENDING TIME [MILITARY] .................................................................

DATE: .................................................................

ENUMERATOR ________________________________ ...............................