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

We are collecting information on practices and costs to produce corn and need your help to make the information as accurate as possible. Authority for collection of information on the Corn Production Practices and Costs 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. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept confidential and used only for statistical purposes. Response is voluntary.

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

BEGINNING TIME
[MILITARY]

0004

SCREENING BOX

0006
1. How many acres of corn did this operation plant for the 2010 crop year? .................
   [If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page.]

2. I will follow a simple procedure to make a random selection from the corn fields planted for the 2010 crop.

   What is the TOTAL number of corn fields that were planted on this operation?
   [If only one field, enter “1” and go to item 5.]

3. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.
   [If there are more than 18 fields, make sure item 2 is TOTAL fields planted and list only the 18 fields closest to the operator’s permanent residence. If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

<table>
<thead>
<tr>
<th>FIELD NAME, NUMBER OR DESCRIPTION</th>
<th>FIELD NAME, NUMBER OR DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>10</td>
</tr>
<tr>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
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<tr>
<td>4</td>
<td>13</td>
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<td>5</td>
<td>14</td>
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<td>6</td>
<td>15</td>
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<td>7</td>
<td>16</td>
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<tr>
<td>8</td>
<td>17</td>
</tr>
<tr>
<td>9</td>
<td>18</td>
</tr>
</tbody>
</table>
4. **ENUMERATOR ACTION:** Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only one field, enter 1.

   SELECTED FIELD NUMBER
   0021

5. The field selected is ____________ (field name/number/description). During this interview, the corn questions will be about this selected corn field. [Be sure the operator can identify the selected field.]

6. **FOR WISCONSIN ONLY:** Was the selected field in an Atrazine Prohibition Area?
   - YES – [Enter code 1]
   - DON'T KNOW – [Enter code 2]
   - NO – [Enter code 3]

   CODE
   0039

   OFFICE USE
   OY Field Substituted
   0022
B

FIELD CHARACTERISTICS—SELECTED FIELD

1. How many acres of corn did this operation plant in this field for the 2010 crop? ........................................

   a. Are the acres in this field CERTIFIED ORGANIC? ............................................................... YES = 1

      [If YES, skip 1b and ask item 2.]

   b. Was this field transitioning into organic corn production in 2010? .............................................. YES = 1

2. Were the acres in this field——

   1 owned by this operation?
   2 rented for CASH with the payment being a fixed cash amount?
   3 rented for CASH with the payment being a flexible cash amount?
   4 rented for a SHARE of the crop?
   5 rented for some combination of CASH and SHARE of the crop?
   6 used RENT FREE?

3. [If field is CASH RENTED (item 2 = 2, 3, or 5), ask item 3; else go to item 4.]
   What was the cash rent paid per acre for this 2010 corn field? .........................................................

4. [If field is SHARE RENTED (item 2 = 4 or 5), ask——]
   What was the landlord’s share of the crop from this field? .................................................................

5. [If field is RENTED (item 2 = 2, 3, 4, or 5), ask——]
   What was the total cost for all inputs provided by any landlord for the 2010 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation. Exclude real estate tax expenses and lime costs paid by the landowner.) .................................................................

6. What was the total cost for all inputs provided by any contractor for the 2010 crop on the selected field? (Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation.) .................................................................

7. What year did you (the operator listed on the label) start operating this field? .................................

8. On what date was this field planted? ..................................................................................
9. Was the corn on this field planted with the intention of being harvested as---

   a. [If item 9 = 1, ask---]
   What was the intended purpose for the grain---

10. What was the average corn row width? ----------------------------------------------------------

11. What was the seeding/planting rate per acre the first time this field was planted? ..............................

12. How many acres in this field had to be replanted to corn?
   (Acres replanted = Number of acres x Number of times replanted) ..................................................

13. What was the total cost per unit (including operator, landlord, and contractor costs) of purchased seed for this field? (Include cost of seed treatment and any seed technology fee.) ..........................................................
1. Genetically-modified herbicide resistant seed variety (e.g. LIBERTYLINK; ROUNDUP READY CORN)

2. Non-genetically-modified herbicide resistant seed variety (e.g. IMI-CORN)

3. Genetically-modified Bt variety for insect resistance to control the European Corn Borer (Bt-ECB) (e.g. YIELDGARD, YIELDGARD CORN BORER, HERCULEX I, NATUREGARD, KNOCKOUT)

4. Genetically-modified Bt variety for insect resistance to control the corn rootworm (Bt-CRW) (e.g. YIELDGARD ROOTWORM, HERCULEX RW)

5. Stacked gene (trait) variety with both genetically-modified Bt-ECB and Bt-CRW (e.g. YIELDGARD PLUS, HERCULEX XTRA)

6. Stacked gene variety with two genetically-modified herbicide resistant traits (e.g. LIBERTYLINK + ROUNDUP READY)

7. Stacked gene variety with both genetically-modified Bt-ECB and herbicide resistant (e.g. YIELDGARD + ROUNDUP READY, YIELDGARD CORN BORER WITH ROUNDUP READY CORN 2, HERCULEX I + LIBERTYLINK),

8. Stacked gene variety with both genetically-modified Bt-CRW and herbicide resistant (e.g. YIELDGARD ROOTWORM WITH ROUNDUP READY CORN 2, HERCULEX CW + ROUNDUP READY CORN)

9. Triple stacked gene variety with genetically-modified Bt-ECB and Bt-CRW plus herbicide resistant traits (e.g. YIELDGARD PLUS WITH ROUNDUP READY CORN 2, HERCULEX XTRA + LIBERTYLINK)

10. New stacked gene varieties that, in addition to the ECB and the rootworm, can control the corn earworm (e.g. YIELDGARD VT TRIPLE WITH ROUNDUP READY 2, GENUITY VT TRIPLE PRO)

11. New multiple (more than three) trait stacked variety with several Bt traits and two herbicide resistant traits—glyphosate (Roundup) and glufosinate (Liberty) (e.g. GENUITY SMARTSTAX)

12. None of the above

14. Which type of corn seed was used on the majority of this field--
   [Show Seed Type Code List from Respondent Booklet and choose one code.]

   a. in 2010 .................................................................

   b. in 2009 [Leave blank if corn was not on this field in 2009] ........................................

15. [If item 14a = 1, 2 or 12, ask---]
    Which of the following reasons influenced you the most in deciding not to plant Bt corn on this field in 2010---

16. [If item 14a does NOT equal 12, ask---]
    Did you choose the resistant seed variety used on this field primarily to---

17. What percentage of the field was used as refuge for insect pests in order to comply with Bt corn insect resistance management guidelines? ..........................
18. Did you purchase seed treated with---
   a. a fungicide (e.g., Trilex, Allegiance, or other seed treatments)? ...................... YES = 1
   b. an insecticide (e.g., Poncho, Gaucho or Cruiser seed treatment)? ...................... YES = 1
   c. a nematicide (e.g., Acceleron or Avicta seed treatment)? ...................... YES = 1

19. Was the corn in the field produced under a production contract?  
    (Exclude corn sold under a marketing contract.) ................................. YES = 1

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

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

   How many acres in this corn field were (or will be)---

<table>
<thead>
<tr>
<th>ACRES</th>
<th>UNITS PER ACRE</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. harvested for grain?</td>
<td>1346</td>
<td>1347</td>
</tr>
<tr>
<td>b. harvested for silage or green chop?</td>
<td>1349</td>
<td>1350</td>
</tr>
<tr>
<td>c. harvested for commercial seed contract?</td>
<td>1431</td>
<td>1432</td>
</tr>
<tr>
<td>d. abandoned?</td>
<td>1351</td>
<td></td>
</tr>
<tr>
<td>e. used for some other purpose?</td>
<td>1439</td>
<td></td>
</tr>
</tbody>
</table>

   1 What yield per acre did you (or do you expect to) get for corn---

   2 UNIT CODE
   1 POUNDS
   2 CWT
   3 TONS
   4 BUSHELS

22. Were the stalks/stover harvested from this field?  
    □ YES - [Enter code 1 and go to item 23]  
    NO - [Ask 22a, then go to item 24] ......................

   a. [If the stalks/stover were not harvested, ask---]

      What was the primary reason for not harvesting the corn stalks/stover? | 1 No market/use for corn stalks/stover
                                                        | 2 Harvesting was not profitable
                                                        | 3 The corn stalks/stover were left as organic material for the soil
                                                        | 4 The stalks/stover were left for livestock grazing
                                                        | 5 Other [Specify _______________________] ......................

23. How many acres of corn stalks/stover were harvested from this corn field? ............................

   a. How many tons of corn stalks/stover were harvested from these corn acres (item 24)? ............................

      \[
      \frac{\text{Tons per Acre}}{\text{Acres}} \times \frac{\text{Acres}}{\text{Total Tons}} \quad \text{OR} \quad \frac{\text{Bales}}{\text{Lbs per Bale}} \times \frac{\text{Lbs per Bale}}{\text{Lbs per Ton}} = \frac{\text{Total Tons}}{2000}
      \]

   ACRES

   TOTAL TONS
24. Did any livestock graze this corn field after harvest of the 2010 corn crop?

- YES - [Enter code 1 and continue]  - NO - [Go to item 26].

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1400</td>
</tr>
</tbody>
</table>

25. What type of livestock grazed this corn field after harvest of the 2010 corn crop?

- 1 Cattle  - 2 Sheep  - 3 Other [Specify ___________]

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1361</td>
</tr>
</tbody>
</table>

a. About how many head of livestock (item 25) grazed this corn field?

<table>
<thead>
<tr>
<th>HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1362</td>
</tr>
</tbody>
</table>

b. How many days did this livestock graze on this corn field?

<table>
<thead>
<tr>
<th>DAYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1363</td>
</tr>
</tbody>
</table>

### CROP CODE LIST for item 26 – PREVIOUSLY PLANTED CROPS

<table>
<thead>
<tr>
<th>CROP NAME</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>190</td>
</tr>
<tr>
<td>Canola</td>
<td>85</td>
</tr>
<tr>
<td>Clover</td>
<td>310</td>
</tr>
<tr>
<td>Corn for grain</td>
<td>6</td>
</tr>
<tr>
<td>Corn for silage</td>
<td>5</td>
</tr>
<tr>
<td>Cotton, Pima</td>
<td>282</td>
</tr>
<tr>
<td>Cotton, Upland</td>
<td>281</td>
</tr>
<tr>
<td>CRP</td>
<td>302</td>
</tr>
<tr>
<td>Dry Beans</td>
<td>3</td>
</tr>
<tr>
<td>Dry Peas</td>
<td>17</td>
</tr>
<tr>
<td>Grasses other than clover</td>
<td>311</td>
</tr>
<tr>
<td>Hay, alfalfa</td>
<td>1</td>
</tr>
<tr>
<td>Hay, all other</td>
<td>11</td>
</tr>
<tr>
<td>Mustard Seed</td>
<td>94</td>
</tr>
<tr>
<td>Oats</td>
<td>15</td>
</tr>
<tr>
<td>Peanuts</td>
<td>16</td>
</tr>
<tr>
<td>Potatoes</td>
<td>20</td>
</tr>
<tr>
<td>Rice</td>
<td>21</td>
</tr>
<tr>
<td>Rye</td>
<td>22</td>
</tr>
<tr>
<td>Safflower</td>
<td>98</td>
</tr>
<tr>
<td>Sorghum for grain</td>
<td>25</td>
</tr>
<tr>
<td>Sorghum for silage</td>
<td>24</td>
</tr>
<tr>
<td>Soybeans</td>
<td>26</td>
</tr>
<tr>
<td>Sugarbeets</td>
<td>28</td>
</tr>
<tr>
<td>Sunflowers</td>
<td>30</td>
</tr>
<tr>
<td>Tobacco, burley</td>
<td>193</td>
</tr>
<tr>
<td>Tobacco, flue cured</td>
<td>196</td>
</tr>
<tr>
<td>Vegetables</td>
<td>42</td>
</tr>
<tr>
<td>Wheat, durum</td>
<td>163</td>
</tr>
<tr>
<td>Wheat, other spring</td>
<td>164</td>
</tr>
<tr>
<td>Wheat, winter</td>
<td>165</td>
</tr>
<tr>
<td>No crop planted</td>
<td>318</td>
</tr>
</tbody>
</table>

26. Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.

### SEASON AND YEAR

#### a. FALL of 2009

<table>
<thead>
<tr>
<th>CROP NAME</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barley</td>
<td>1343</td>
</tr>
<tr>
<td>Canola</td>
<td>1369</td>
</tr>
<tr>
<td>Clover</td>
<td>1372</td>
</tr>
<tr>
<td>Corn for grain</td>
<td>1375</td>
</tr>
<tr>
<td>Corn for silage</td>
<td>1378</td>
</tr>
<tr>
<td>Cotton, Pima</td>
<td>1381</td>
</tr>
<tr>
<td>CRP</td>
<td>1366</td>
</tr>
<tr>
<td>Fall</td>
<td>1340</td>
</tr>
</tbody>
</table>

1/ Soil and previous crop residue left undisturbed from harvest to planting.
i. [If a cover crop was planted in Spring/Summer/Fall 2009, ask---]

What was the seed cost per acre for the cover crop?

<table>
<thead>
<tr>
<th>LAND-USE PRACTICE</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>YES = 1</td>
<td>YEAR</td>
<td>Was (or will there be) an incentive or cost-share received from:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1. Environmental Quality Incentives Program (EQIP)?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2. Conservation Security or Conservation Stewardship Programs (CSP)?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3. Conservation Reserve Program (CRP)?</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4. Any other Federal, State, Local or non-government source?</td>
</tr>
</tbody>
</table>

- Structures for soil erosion control?
  - (i) Terraces.
  - (ii) Grade stabilization structures.

- Structures for storm water runoff control/handling?
  - (i) Grassed waterways.
  - (ii) Structures for water control basins.

- Filter strips or other conservation buffers?
  - (i) Filter strips.
  - (ii) Field borders.
  - (iii) Riparian buffers (i.e., grass buffers).

- Other Practices?
  - (i) Contour farming and strip cropping.
  - (ii) Conservation tillage / no-till.
  - (iii) Other Practices [Specify ______________________]...
28. Has the Natural Resource Conservation Service (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. In 2010, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field? (Include grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Include assistance from any source whether paid for or free.)

   YES = 1

31. Is this field included in an existing conservation program contract for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments? [Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Also, be sure to consider payments that are part of this contract but were made before 2010 or payments that are anticipated for future years.]

   YES = 1

   [If item 31 is YES, ask item 31a; else go to item 31b.]

a. Have you received (or will you receive) cost sharing or incentive payments from---

   1. Environmental Quality Incentives Program (EQIP)
   2. Conservation Security or Conservation Stewardship Programs (CSP)
   3. Conservation Reserve Program (CRP)
   4. Other Federal, State, Local or non-government source

b. Was this field included in a conservation program application that was rejected from---

   1. Environmental Quality Incentives Program (EQIP)
   2. Conservation Security or Conservation Stewardship Programs (CSP)
   3. Conservation Reserve Program (CRP)
   4. Other Federal, State, Local or non-government source

32. During 2010, did any written plan of the following types cover this field---

   (A “written plan” is a plan prepared in accordance with Federal, State, or district standards.)

<table>
<thead>
<tr>
<th>WRITTEN PLAN TYPE</th>
<th>1. Was this type of written plan used?</th>
<th>2. What year was this plan implemented?</th>
<th>3. For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from:</th>
<th>4. CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Conservation plan specifying practices to reduce soil erosion?</td>
<td>1408</td>
<td>1409</td>
<td>1410</td>
<td>1411</td>
</tr>
<tr>
<td>b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?</td>
<td>1410</td>
<td>1410</td>
<td>1411</td>
<td>1411</td>
</tr>
<tr>
<td>c. Nutrient management plan specifying practices for land application of manure only?</td>
<td>1412</td>
<td>1412</td>
<td>1413</td>
<td>1413</td>
</tr>
<tr>
<td>d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?</td>
<td>1414</td>
<td>1414</td>
<td>1415</td>
<td>1415</td>
</tr>
<tr>
<td>e. Irrigation water management plan specifying practices for applying or conserving irrigation water?</td>
<td>1416</td>
<td>1416</td>
<td>1417</td>
<td>1417</td>
</tr>
</tbody>
</table>
33. [If item 32a, b, c, d, or e is YES, ask---]

Have you ever paid any technical service provider or consultant to develop or write any of these plans for which you or the landowner were reimbursed by the Natural Resource Conservation Service? 

- YES = 1

a. [If YES, ask---]

What was the reimbursement amount for developing these plans for this field? (Include landlord's/contractor's share. Exclude cost of construction or materials.)

DOLLARS & CENTS

<table>
<thead>
<tr>
<th>PER ACRE</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1353</td>
<td>1384</td>
</tr>
</tbody>
</table>

34. Was the corn in this field covered by Federal Crop Insurance in 2010?

- YES – [Enter code 1 and continue]  
- NO – [Go to item 35].

a. Which coverage did you obtain? 

- Basic catastrophic insurance (Federal CAT)
- Buy-up above basic federal CAT level
- Revenue insurance
- Organic plan insurance
- Other Federal Crop insurance

(i) [If item a = 3, ask---]

What was the level of revenue coverage you obtained for this field?

PERCENT

| 1389 |

b. In what year did you (the operator listed on the label) first enroll this field in the Federal crop insurance program?

YEAR

| 1387 |

BUSHELS PER ACRE

| 1388 |

d. What was the premium paid for Federal crop insurance for this field in 2010? (Exclude any sign-up fee.)

DOLLARS & CENTS

<table>
<thead>
<tr>
<th>PER ACRE</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1390</td>
<td>1391</td>
</tr>
</tbody>
</table>

e. Did you (or will you) collect an indemnity payment for this field from federal crop insurance during 2010?

YES = 1

35. Was the corn in this field covered by private crop insurance in 2010 (hail, wind, freeze, etc.)?

- YES – [Enter code 1 and continue]  
- NO – [Go to Section C].

a. What was the premium paid for private crop insurance for this field in 2010? (Exclude any sign-up fee.)

DOLLARS & CENTS

<table>
<thead>
<tr>
<th>PER ACRE</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1395</td>
<td>1396</td>
</tr>
</tbody>
</table>

b. In what year did you (the operator listed on this label) first purchase private crop insurance for this field?

YEAR

| 1397 |

c. Did you (or will you) collect an indemnity payment for this field from private crop insurance during 2010?

YES = 1
1. Were commercial nutrients or fertilizers applied to this field for the 2010 corn crop? .................................................. YES = 1

2. If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 7.

3. How many commercial nutrient or fertilizer applications were made to this field for the 2010 crop? (Include applications made by airplanes and custom applicators). .................................................................

4. Now I need to record information for each application.

**CHECKLIST**

- [✓] INCLUDE
  - Custom applied nutrients or fertilizers
  - Nutrients or fertilizers applied in the fall of 2009 and those applied earlier if this field was fallow in 2009
  - Commercially prepared manure or compost

- [✓] EXCLUDE
  - Micronutrients
  - Unprocessed manure
  - Nutrients or fertilizers applied to previous crops in this field
  - Lime and gypsum/landplaster

**NITROGEN CODES for COLUMN 2**

1. anhydrous ammonia
2. nitrogen solution (UAN)
3. urea
4. ammonium nitrate
5. sodium nitrate
6. ammonia sulfate
7. potassium nitrate, magnesium nitrate, and calcium nitrate
8. other nitrogen fertilizer material

**APPLICATION CODES for COLUMN 6**

1. Broadcast, ground without incorporation
2. Broadcast, ground with incorporation
3. Broadcast, by aircraft
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

**MATERIALS USED**

[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]

[Show Common Nutrients or Fertilizers in Respondent Booklet]

[Refer to nitrogen code list above for type of nitrogen used.]

<table>
<thead>
<tr>
<th>N Nitrogen</th>
<th>P₂O₅ Phosphate</th>
<th>K₂O Potash</th>
<th>S Sulfur</th>
<th>Type of N used</th>
<th>T-TYPE 0</th>
<th>TABLE 000</th>
<th>LINE 00</th>
</tr>
</thead>
<tbody>
<tr>
<td>0205</td>
<td>0206</td>
<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
<td>0209</td>
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<td>0205</td>
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<tr>
<td>0205</td>
<td>0206</td>
<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
<td>0209</td>
<td>0210</td>
</tr>
<tr>
<td>0205</td>
<td>0206</td>
<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
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<td>0210</td>
</tr>
<tr>
<td>0205</td>
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<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
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<td>0210</td>
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<tr>
<td>0205</td>
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<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
<td>0209</td>
<td>0210</td>
</tr>
<tr>
<td>0205</td>
<td>0206</td>
<td>0207</td>
<td>0214</td>
<td>0290</td>
<td>0208</td>
<td>0209</td>
<td>0210</td>
</tr>
</tbody>
</table>

**What quantity was applied per acre?**

[Enter material code.]

1 Pounds
12 Gallons
19 Pounds of actual nutrients

**When was this applied?**

1 In the fall before seeding
2 In the spring before seeding
3 At seeding
4 After seeding

**How was this applied?**

[Refer to code list above.]
5. Were any nutrients or fertilizers applied by custom applicators?
   - YES - [Continue]
   - NO - [Go to item 6]

   a. Are you able to report the cost of nutrient or fertilizer materials and custom application separately?
      - YES - [Continue]
      - NO - [Go to item 6]

   b. Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom application of nutrients or fertilizers on this field? (Include operator, landlord, and contractor costs. Include costs for sulfur and micronutrients. Exclude custom application of lime, gypsum, purchased manure and purchased compost.) [If material and application costs can’t be separated, exclude them here and record the total in item 6.]

   OFFICE USE

   DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
   
   0215
   0216

6. What was the TOTAL COST of all nutrient or fertilizer products applied to this field? (Include operator, landlord, and contractor costs as well as the costs for sulfur, micronutrients, and nitrogen inhibitors. [If custom applied and the cost of materials can be separated from application costs, include the cost of materials ONLY; otherwise, include both the material and application costs.] Include materials applied to this field if it was fallow in 2009. Exclude lime, gypsum, purchased manure, and purchased compost.)

   DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
   
   0219
   0220

   CODE

7. Was gypsum applied to this field for the 2010 corn crop? YES = 1

   UNIT CODES
   1 POUNDS
   2 CWT
   3 TONS
   4 BUSHELs
   5 BARRELS

8. What was your yield goal at planting for this field?

9. Was a soil or plant tissue test performed on this corn field in 2009 or 2010 for the 2010 crop?
   - YES [Continue]
   - NO [Go to item 14]

10. Was a soil test for phosphorus performed on this corn field in 2009 or 2010 for the 2010 crop? YES = 1
    a. [If phosphorus test done, ask--]

11. Was a soil test for nitrogen performed on this corn field in 2009 or 2010 for the 2010 crop? YES = 1
    a. [If nitrogen test done, ask--]

12. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field for the 2010 crop? YES = 1
13. **How much was spent for these soil and plant tissue tests on this field?** *(Include operator, landlord, and contractor costs.)*  

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER ACRE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- 0230
- 0231

a. If tests were done at no cost, explain---

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0232</td>
</tr>
</tbody>
</table>

1. Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service
2. Soil/plant tissue test costs were included in the total fertilizer costs reported in item 6
3. Some other reason

14. **[ENUMERATOR ACTION]: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 15, 16 and 17. If NO nitrogen applied, go to item 18.**

15. **Was the amount of nitrogen you decided to apply to this field based on---**

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0233</td>
</tr>
<tr>
<td>0234</td>
</tr>
<tr>
<td>0235</td>
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<tr>
<td>0236</td>
</tr>
<tr>
<td>0237</td>
</tr>
<tr>
<td>0238</td>
</tr>
<tr>
<td>0239</td>
</tr>
</tbody>
</table>

a. Results of a soil or plant tissue test?  
   YES = 1
b. Crop consultant recommendation?  
   YES = 1
c. Fertilizer dealer recommendation?  
   YES = 1
d. Extension Service recommendation?  
   YES = 1
e. Cost of nitrogen and/or expected commodity price?  
   YES = 1
f. Contractor recommendation?  
   YES = 1
g. Routine practice *(operator’s own determination based on past experience, yield goal, etc.)*?  
   YES = 1

16. **Did you purchase any commercial nitrogen fertilizer applied to this field under contract or otherwise pre-purchase the fertilizer at a pre-determined price prior to planting?**  

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0223</td>
</tr>
</tbody>
</table>

a. [If YES, ask---]
   What month prior to planting for the 2010 crop did you contract for the fertilizer used on this field? *
   Enter code “1” for January, “2” for February, etc.*  

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0224</td>
</tr>
</tbody>
</table>

17. **Which of the following products did you use to slow the breakdown of nitrogen on this field?**

<table>
<thead>
<tr>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0241</td>
</tr>
</tbody>
</table>

a. [If nitrogen inhibitors were used, continue; else go to item 18.]
   How much nitrogen inhibitor did you mix with the nitrogen applied to this field?  

<table>
<thead>
<tr>
<th>POUNDS</th>
<th>GALLONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER ACRE</td>
<td>PER ACRE</td>
</tr>
<tr>
<td>0295</td>
<td>0296</td>
</tr>
</tbody>
</table>

DOLLARS AND CENTS

<table>
<thead>
<tr>
<th>DOLLARS AND CENTS</th>
<th>DOLLARS AND CENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PER POUND</td>
<td>PER GALLON</td>
</tr>
<tr>
<td>0297</td>
<td>0298</td>
</tr>
</tbody>
</table>
18. Is lime ever applied to this field? ............................................................... YES = 1

[If no lime applied, go to item 19; else continue.]

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

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

c. Was lime applied to this field in 2009 or 2010 for the 2010 crop? ........................................

YES = 1

d. [If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask---]

Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)? .................................................................

0245

19. Was non-commercial (unprocessed) manure (from own farm, from a neighbor’s farm, etc.) or other organic material (excluding compost) applied to this field for the 2010 corn crop? (Exclude commercially prepared manure.)

□ YES - [Enter code 1 and continue]  □ NO - [Go to item 21] ........................................

a. How many acres in this field was manure applied to? ..............................................................

b. What was the amount of manure applied to this field? ............... 1 TONS 2 GALLONS 3 BUSHELS...

CODE UNITS PER ACRE OR TOTAL UNITS

0248 0249 ... 0250

c. What is the distance between the manure storage/production location and this field? ..............

0251

d. What was the capacity of the manure spreader (or other vehicle) used to haul manure to this field? ...........

CODE TOTAL UNITS

0252 0253 ...

e. Of the total manure applied to this field for the 2010 crop, what was the percent of manure applied---

(i) in the fall before planting? ................................................................. +

(ii) in the spring before planting? .............................................................. +

(iii) after planting? ................................................................................ +

100%

f. Was the manure---

1 Lagoon liquid?

2 Slurry liquid?

3 Semi-dry or dry?

 CODE

0257

g. Was the manure---

1 Broadcast or sprayed without incorporation?

2 Broadcast or sprayed with incorporation?

3 Injected/knifed in?

4 Sprayed using irrigation systems?

 CODE

0258
h. Was the major source of the manure from---

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Beef cattle?</td>
</tr>
<tr>
<td>2</td>
<td>Dairy cattle?</td>
</tr>
<tr>
<td>3</td>
<td>Hogs?</td>
</tr>
<tr>
<td>4</td>
<td>Sheep?</td>
</tr>
<tr>
<td>5</td>
<td>Poultry?</td>
</tr>
<tr>
<td>6</td>
<td>Equine?</td>
</tr>
<tr>
<td>7</td>
<td>Biosolids (municipal sludge)?</td>
</tr>
<tr>
<td>8</td>
<td>Food waste?</td>
</tr>
<tr>
<td>9</td>
<td>Other? [Specify ____________________ ]</td>
</tr>
</tbody>
</table>

---

i. Was the manure---

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Produced on this operation?</td>
</tr>
<tr>
<td>2</td>
<td>Purchased?</td>
</tr>
<tr>
<td>3</td>
<td>Obtained at no cost off this operation?</td>
</tr>
<tr>
<td>4</td>
<td>Obtained with compensation? (Operator received payment for accepting the manure.)</td>
</tr>
</tbody>
</table>

---

(i) [If item i = 2, ask---]

What was the total cost of the purchased manure applied to this field? *(Include operator, landlord, and contractor costs and any payment made for transportation costs.)*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DOLLARS &amp; CENTS</td>
</tr>
<tr>
<td></td>
<td>PER ACRE</td>
</tr>
<tr>
<td>0264</td>
<td></td>
</tr>
</tbody>
</table>

---

(ii) Did you hire someone to custom apply the manure? ........................................... YES = 1

(1) [If YES, ask---]

What was the total cost paid to have manure custom applied to this field? *(Include operator, landlord, and contractor costs.)*

[Do not report custom application cost if it was included with the purchased manure cost.]

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DOLLARS &amp; CENTS</td>
</tr>
<tr>
<td></td>
<td>PER ACRE</td>
</tr>
<tr>
<td>0287</td>
<td></td>
</tr>
</tbody>
</table>

---

j. Of the manure applied to this field, was any tested for nutrient content prior to application? .................................................. YES = 1

---

k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? ................................. YES = 1

(i) [If YES, ask---]

By what percent did you reduce the commercial nitrogen fertilizer application rate on this field? .................................................

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PERCENT</td>
</tr>
<tr>
<td>0263</td>
<td></td>
</tr>
</tbody>
</table>

---

l. Did you adjust the corn harvest date for this field due to the application of manure? .......................................................... YES = 1

---

20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? .................................... YES = 1

a. [If item 20 is YES, ask---]

What basis was used to determine these manure application rate restrictions--

(i) Nitrogen requirement of the crop? ............................................. YES = 1

(ii) Phosphorus requirement of the crop? ....................................... YES = 1
21. **Was compost applied to this field for the 2010 corn crop?**

- **YES** - [Enter code 1 and continue]
- **NO** - [Go to Section D].

<table>
<thead>
<tr>
<th>CODE</th>
<th>ACRES</th>
</tr>
</thead>
<tbody>
<tr>
<td>0267</td>
<td></td>
</tr>
</tbody>
</table>

   a. To how many acres in this field was the compost applied?

<table>
<thead>
<tr>
<th>CODE</th>
<th>UNITS PER ACRE</th>
<th>TOTAL UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0268</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   b. What was the amount of compost applied to this field?

   1. Tons
   2. Cubic Yards

<table>
<thead>
<tr>
<th>CODE</th>
<th>UNITS PER ACRE</th>
<th>TOTAL UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0269</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0270</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0271</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   [Enter up to 3 source codes]

   - **FIRST**
   - **SECOND**
   - **THIRD**

   c. Were the major sources of the compost from---

   1. Beef cattle?
   2. Dairy cattle?
   3. Hogs?
   4. Sheep?
   5. Poultry?
   6. Equine?
   7. Biosolids (municipal sludge)?
   8. Food waste?
   9. Crop? [Specify______________________]
   10. Other? [Specify______________________]

<table>
<thead>
<tr>
<th>CODE</th>
<th>CODE</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0281</td>
<td>0282</td>
<td>0283</td>
</tr>
</tbody>
</table>

   d. Was the compost---

   1. Produced on this operation?
   2. Purchased?
   3. Obtained at no cost off this operation?
   4. Obtained with compensation? (Operator received payment for accepting the compost.)

<table>
<thead>
<tr>
<th>CODE</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0272</td>
<td></td>
</tr>
</tbody>
</table>

   (i) If item 21d = 2, ask---

   What was the total cost of the purchased compost applied to this field? *(Include operator, landlord, and contractor costs and any payment made for transportation costs.)*

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER ACRE</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0273</td>
<td>0274</td>
</tr>
</tbody>
</table>

   (ii) Did you hire someone to custom apply the compost? YES = 1

   (1) If YES, ask---

   What was the total cost paid to have compost custom applied to this field? *(Include operator, landlord, and contractor costs.)* *(Do not report custom application cost if it was included with the compost cost.)*

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER ACRE</th>
<th>TOTAL DOLLARS</th>
</tr>
</thead>
<tbody>
<tr>
<td>0276</td>
<td>0277</td>
</tr>
</tbody>
</table>

   (iii) If item 21d = 1, ask---

   What is the distance between the compost storage/production location and this field?

<table>
<thead>
<tr>
<th>MILES</th>
</tr>
</thead>
<tbody>
<tr>
<td>0299</td>
</tr>
</tbody>
</table>
Now I have some questions about all the biocontrols or pesticides used on this field for the 2010 corn crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this corn field for the 2010 crop? [Probe for applications made in the fall of 2009 (and those made earlier if this field was fallow).] 

If no biocontrols or pesticides applied, go to Section E.

Include defoliants, fungicides, herbicides, insecticides, and other pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

Include biological and botanical pesticides.

<table>
<thead>
<tr>
<th>CHEMICAL PRODUCT NAME</th>
<th>LINE 01</th>
<th>LINE 02</th>
<th>LINE 03</th>
<th>LINE 04</th>
<th>LINE 05</th>
<th>LINE 06</th>
<th>LINE 07</th>
<th>LINE 08</th>
<th>LINE 09</th>
<th>LINE 10</th>
<th>LINE 11</th>
<th>LINE 12</th>
<th>LINE 13</th>
<th>LINE 14</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0305</td>
<td>0305</td>
<td>0305</td>
<td>0305</td>
<td>0305</td>
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<td>0306</td>
<td>0306</td>
<td>0306</td>
</tr>
<tr>
<td>What products were applied to this field?</td>
<td>[Show product codes from Respondent Booklet.]</td>
<td>[Enter L or D]</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Was this product bought in liquid or dry form?</td>
<td>[If tank mix, enter line number of first product in mix.]</td>
<td></td>
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</tr>
<tr>
<td>Was this part of a tank mix?</td>
<td>1 BEFORE planting</td>
<td>3 AT planting</td>
<td>4 AFTER planting</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>When was this applied?</td>
<td>1 BEFORE planting</td>
<td>3 AT planting</td>
<td>4 AFTER planting</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>How much was applied per acre per application?</td>
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<td></td>
</tr>
<tr>
<td>Where Purchased</td>
<td></td>
<td></td>
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<tr>
<td>T - TYPE 3</td>
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<tr>
<td>TABLE 001</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>OFFICE USE LINE IN TABLE</td>
<td>0319</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify—–]
### 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 aircraft</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>

[ENUMERATOR NOTE:]

Use these columns only if TOTAL COST (item 4 on next page) cannot be provided.

---

### OPTIONAL ITEM 4

**What was the cost per unit of the product?**

<table>
<thead>
<tr>
<th>UNIT CODE</th>
<th>DOLLARS &amp; CENTS PER UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Pounds</td>
<td>0317 ___ 0318</td>
</tr>
<tr>
<td>2 Gallons</td>
<td>0317 ___ 0318</td>
</tr>
<tr>
<td>3 Quarts</td>
<td>0317 ___ 0318</td>
</tr>
<tr>
<td>4 Mils</td>
<td>0317 ___ 0318</td>
</tr>
<tr>
<td>5 Liquid Ounces</td>
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</table>

[Enter code from above.]
3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?
   - YES – [Continue]
   - NO – [Go to item 4]

   a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?
      - YES – [Continue]
      - NO – [Go to item 4]

   b. Excluding the cost of the chemical, biocontrol, and pesticide products, how much was spent for custom application of such materials on this field? (Include operator, landlord, and contractor costs.)
      DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
      0331__ __ 0332

4. What was the TOTAL COST of all chemical, biocontrol, or pesticide products applied to this field? (Include operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2009 fallow period. Exclude seed treatments.)
   DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
   0334__ __ 0335

NOTE 1: If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Biocontrol or Pesticide Table.

NOTE 2: If custom applied and the costs for materials can be separated from application costs, include the cost for materials only. Otherwise, report both the material and application costs in item 4.
Now I have some questions about your pest management decisions and practices used on this field for the 2010 corn crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

1. [ENUMERATOR ACTION: Were PESTICIDE applications reported in Section D?]  
   - YES – [Continue]  
   - NO – [Go to item 10]

2. Was weather data used to assist in determining either the need or when to make pesticide applications? YES = 1

3. Were any biological pesticides such as Bt (Bacillus thuringiensis), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in this field? YES = 1

4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? YES = 1

5. [ENUMERATOR ACTION: Were HERBICIDE (pesticide product codes 3000-4999) applications reported in Section D, item 1, column 2?]  
   - YES – [Continue]  
   - NO – [Go to item 8]

6. Were herbicides applied to this corn field BEFORE weeds emerged? YES = 1
   a. [If item 6 is YES, ask---]  
      Were the herbicides applied BEFORE weeds emerged on this cornfield based primarily on---
      - 1 routine treatments of what weeds are usually present?  
        OR  
      - 2 weed scouting from the previous year?

7. Were herbicides applied to this corn field AFTER weeds emerged? YES = 1
   a. [If item 7 is YES, ask---]  
      Were the herbicides applied AFTER weeds emerged on this cornfield based primarily on---
      - 1 routine treatments of what weeds are usually present?  
        OR  
      - 2 weed scouting from the current year?

8. [ENUMERATOR ACTION: Were INSECTICIDE (pesticide product codes 1000 – 2999) applications reported in Section D, item 1, column 2?]  
   - YES – [Continue]  
   - NO – [Go to item 10]

9. Were the insecticides applied to this corn field based primarily on---
   - 1 routine treatments of what insects are usually present?  
     OR  
   - 2 scouting for insect infestation?
10. In 2010, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?

1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 11.]
2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 13.]
3 This field was not scouted. [Enter code 3 and go to item 18.]

11. Was an established scouting process (systematic sampling, recording counts, etc.) used or were insect traps used in this field? YES = 1

12. Was scouting for pests done in this field due to---

a. a pest advisory warning? YES = 1

b. a pest development model? YES = 1

13. Was this corn field scouted for--- YES = 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
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<tr>
<td>0812</td>
<td>a. weeds?</td>
</tr>
<tr>
<td>0813</td>
<td>b. insects or mites?</td>
</tr>
<tr>
<td>0831</td>
<td>(i) corn borer?</td>
</tr>
<tr>
<td>0832</td>
<td>(ii) corn rootworm?</td>
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<tr>
<td>0833</td>
<td>(iii) other insects?</td>
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<td>0814</td>
<td>c. diseases?</td>
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<tr>
<td>0815</td>
<td>a.</td>
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<tr>
<td>0816</td>
<td>b.</td>
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<td>0817</td>
<td>c.</td>
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<tr>
<td>0824</td>
<td>a.</td>
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<tr>
<td>0826</td>
<td>b.</td>
</tr>
<tr>
<td>0828</td>
<td>c.</td>
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DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS

14. How much was charged for the scouting services for this field?

Include operator, landlord, and contractor costs.)

a. If scouting performed at no cost, explain: ____________________________

15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? YES = 1
16. Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field? \( \text{YES} = 1 \)  

17. Did you use field mapping of previous weed problems to assist you in making weed management decisions? \( \text{YES} = 1 \)  

18. Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in this field? [Enter code “1” for all that apply.]

a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field? \( \text{YES} = 1 \)  
b. Plow down crop residue (using conventional tillage)? \( \text{YES} = 1 \)  
c. Remove/burn down crop residue? \( \text{YES} = 1 \)  
d. Rotate crops in this field during the past 3 years? \( \text{YES} = 1 \)  
e. Maintain ground covers, mulches, or other physical barriers? \( \text{YES} = 1 \)  
f. Choose crop variety because of specific resistance to a certain pest? \( \text{YES} = 1 \)  
g. Use no-till or minimum till? \( \text{YES} = 1 \)  
h. Plan planting locations to avoid cross infestation of pests? \( \text{YES} = 1 \)  
i. Adjust planting or harvesting dates? \( \text{YES} = 1 \)  
j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines? \( \text{YES} = 1 \)  
k. Clean equipment and field implements after completing field work to reduce the spread of pests? \( \text{YES} = 1 \)  
l. Adjust row spacing, plant density or row directions? \( \text{YES} = 1 \)  
m. Have the seed treated for insect or disease control after you purchased the seed for this field? \( \text{YES} = 1 \)  
n. Maintain a beneficial insect or vertebrate habitat? \( \text{YES} = 1 \)  
o. Maintain buffer strips or border rows to isolate corn from non-organic crops or land, or did you take a buffer harvest? \( \text{YES} = 1 \)  
p. Use a flamer to kill weeds? \( \text{YES} = 1 \)  
q. Plant earlier or later to avoid weeds? \( \text{YES} = 1 \)
19. Were any beneficial organisms (insects, nematodes, fungi) applied or released in this field to manage pests?  [YES = 1]

20. Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field?  [YES = 1]
   a. [If item 19 or item 20 is YES, ask---]
      What were the TOTAL materials and application costs for all biological pest controls for this field?  (Include operator, landlord, and contractor costs. Include cost for beneficial organisms (insects, nematodes, and fungi). Exclude biological pesticides.)
   
   DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS  [0859, 0860]

21. Was a trap crop (excluding fallow) grown to help manage insects in this field?  [YES = 1]

22. Was this field left fallow in 2009 to help manage insects on this field?  [YES = 1]

23. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage for pests or toxic producing fungi and bacteria?  [YES = 1]

24. Was protection of beneficial organisms a factor in your pest control decisions for this field?
   □ YES – [Enter code 1 and continue]  □ NO – [Go to item 25]  [0862]
   
   a. Did you change timing of, reduce application rate of, or eliminate a pesticide application?  [YES = 1]
   b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice?  [YES = 1]

25. Did you cultivate this field for weed control?  [YES = 1]
   
   a. [If yes, ask---]
      How many times?

26. If untreated (either with insecticides or Bt seed), how much yield loss (e.g. bushels per acre) do you think the CORN BORERS would most likely cause on this field?  [0870, 0871]

27. If untreated (either with insecticides or Bt seed), how much yield loss (e.g. bushels per acre) do you think the CORN ROOTWORMS would most likely cause on this field?  [0872, 0873]
PEST MANAGEMENT INFORMATION

28. [Show Pest Management Information Sources Code List from Respondent Booklet.]
Which outside sources of information on pest management practices and products were used for the 2010 corn crop?
[Starting with the most influential in determining the pest management practices used on this operation, enter codes for up to three sources.]

PEST MANAGEMENT INFORMATION SOURCES CODE LIST

1  County, Cooperative, or University Extension Advisor, Publications or Demonstrations
2  Farm Supply or Chemical Dealer
3  Commercial Scouting Service
4  Independent Crop Consultant or Pest Control Advisor/Custom Applicator
5  Other Growers or Producers
6  Producer Associations, Newsletters or Trade Magazines
7  Electronic Information Services (DTN, Internet, World Wide Web, etc.)
8  Employee Pest Advisor
9  Other — [Specify ____________________________]
10 None – Operator used no outside information source

[Enter up to 3 source codes.]
FIRST 0826
SECOND 0827
THIRD 0828
CODE 0829

29. Other than pesticide applicator training, have you (the operator) attended any training session on pest identification and management since October 1, 2009? ...... YES = 1

30. Has this field ever been infested with weeds resistant to glyphosate (e.g. Roundup)?
   □ YES – [Continue] □ NO – [Go to item 33]
   a. What year was this field first infested with glyphosate-resistant weeds? ..................

   YES = 1 0874 __ __ __ __

31. Which of the following changes did you make to your weed management practices in this field due to the presence of glyphosate-resistant weeds? Did you--
   a. stop planting glyphosate-tolerant seeds? ................................................................. YES = 1
   b. apply other herbicides in addition to glyphosate? ...................................................... YES = 1
   c. change tillage practices? ............................................................................................. YES = 1

   1 Increased application rate
   2 Decreased application rate
   3 Stopped using glyphosate
   4 Did not change glyphosate use

   CODE 0875 0876 0877

32. How did you change your glyphosate use? .............

   1 Increased application rate
   2 Decreased application rate
   3 Stopped using glyphosate
   4 Did not change glyphosate use

   CODE 0878

33. If you have planted glyphosate-tolerant seeds (e.g. Roundup-Ready soybeans) on any field on this operation, please enter the year you first did so. .......................

   YES = 1 0879 __ __ __ __

Completion Code for Pest Management Data
1 Incomplete/Refusal 0340
1. **Now I need to list all tractors used to produce corn on the selected field.**

<table>
<thead>
<tr>
<th>CODE</th>
<th>What tractors were used on this field?</th>
<th>YEAR</th>
<th>CODE</th>
<th>What is the model year?</th>
<th>CODE</th>
<th>Is this vehicle a---?</th>
<th>CODE</th>
<th>What is its PTO Horsepower?</th>
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<td>0120</td>
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<td>0122</td>
<td>0123</td>
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<td>2</td>
<td>AGCO (Challenger, Massey-Ferguson, Caterpillar)</td>
<td>0124</td>
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<td>Ford New-Holland (Case)</td>
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2. **Was a self-propelled combine used to harvest the corn field?**
   - ☐ YES – [Continue]
   - ☐ NO – [Go to item 3]
   a. **What is the model year of the self-propelled harvester(s) used to harvest corn from this field?** *(Report the average year if more than one was used.)* ………………………………………………………………

   **YEAR**

   0830 ______________
Including custom operations, I need to list field work performed by machines on this field for the 2010 corn crop. Please...

- begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop harvested (if fallow during 2009, list operations starting with fall 2008);
- list the operations in order through harvest and hauling of this crop to storage or first point of sale; and
- maintain the order of tandem hook-ups.

**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

**CHECK LIST**
Include all field work using machines for---
- Land Forming/Levee Building
- Tillage
- Preparing for Irrigation
- Planting
- Fertilizer & Pesticide applications
- Harvesting & Hauling to storage or first point of sale
Exclude
- Lime & Gypsum/landplaster applications

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</table>

1/ If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.
4. **Now I need some additional information about your labor.**

Please report the paid and unpaid labor that worked on this field to produce the 2010 corn crop. (Exclude labor that was reported for field work performed by machines.)

<table>
<thead>
<tr>
<th>TYPE OF WORKERS</th>
<th>a. scouting for weeds, insects and diseases?</th>
<th>b. irrigating?</th>
<th>c. performing other work by hand?</th>
</tr>
</thead>
<tbody>
<tr>
<td>You (the operator)</td>
<td>1101 HOURS</td>
<td>1102 HOURS</td>
<td>1103 HOURS</td>
</tr>
<tr>
<td>Partner(s)</td>
<td>1104 HOURS</td>
<td>1105 HOURS</td>
<td>1106 HOURS</td>
</tr>
<tr>
<td>Unpaid workers</td>
<td>1107 HOURS</td>
<td>1108 HOURS</td>
<td>1109 HOURS</td>
</tr>
<tr>
<td>Paid part-time or seasonal workers</td>
<td>1110 HOURS</td>
<td>1111 HOURS</td>
<td>1112 HOURS</td>
</tr>
<tr>
<td>Paid full-time workers</td>
<td>1113 HOURS</td>
<td>1114 HOURS</td>
<td>1115 HOURS</td>
</tr>
</tbody>
</table>

5. **What was the average hourly wage rate paid to part-time or seasonal hired workers?**

(Exclude custom and contract workers, payroll taxes and benefits.)

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER HOUR</th>
</tr>
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<tbody>
<tr>
<td>1119</td>
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</table>

6. **What was the average hourly wage rate paid to full-time hired workers?**

(Exclude custom and contract workers, payroll taxes and benefits.)

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER HOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1118</td>
</tr>
</tbody>
</table>

7. **Was any contract labor used on this field?** YES = 1

a. **[If YES, ask ---]**

   What was the average cost per acre for this contract labor?

   (Include operator, landlord, and contractor costs.)

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1117</td>
</tr>
</tbody>
</table>

8. **What percent of the total number of unpaid hours worked on this field was performed by workers under 16 years of age?** (Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.)

<table>
<thead>
<tr>
<th>PERCENT</th>
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<tbody>
<tr>
<td>1120</td>
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</table>
9. Now I need some information on how much was spent for custom services used on this field for the 2010 corn crop.

<table>
<thead>
<tr>
<th>CUSTOM SERVICE</th>
<th>DOLLARS &amp; CENTS PER ACRE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Which of the following services were performed for the 2010 corn crop on this field?</td>
<td></td>
</tr>
<tr>
<td>a. Custom land preparation, shaping and/or leveling</td>
<td></td>
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<tr>
<td>b. Custom cultivating</td>
<td></td>
</tr>
<tr>
<td>c. Custom planting and/or reseeding</td>
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<tr>
<td>d. Custom harvesting</td>
<td></td>
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<tr>
<td>e. Custom hauling to storage or point of first sale</td>
<td></td>
</tr>
<tr>
<td>f. Custom harvesting and hauling from field to storage or point of first sale</td>
<td></td>
</tr>
</tbody>
</table>

10. Did you hire any technical or consultant services to make recommendations (such as for nutrient, pest control, irrigation, or precision farming) for this field?

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

Which of the following services did you obtain?

- a. Nutrient recommendations/management service? (YES = 1)
- b. Soil or tissue sample collection? (YES = 1)
- c. Pest control recommendations/management service? (YES = 1)
- d. Pest scouting? (YES = 1)
- e. Irrigation management service (i.e. irrigation scheduling)? (YES = 1)
- f. Yield map or remote sensing map development/interpretation? (YES = 1)
- g. Other custom or technical service? [Specify:] (YES = 1)

11. If YES to any of these services, what was the cost for all of these services? (Include operator, landlord, and contractor costs. Exclude cost of soil/tissue tests or scouting cost reported earlier. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.)

<table>
<thead>
<tr>
<th>DOLLARS &amp; CENTS PER ACRE</th>
<th>OR TOTAL DOLLARS</th>
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<tbody>
<tr>
<td>1136</td>
<td>1137</td>
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</table>
12. Was there (or will there be) a yield monitor on the equipment used to harvest this corn field? .................................................. YES = 1

[If YES, continue; else go to item 13]

a. Was there (or will there be) a yield map produced from this harvest using information from the yield monitor? .............................................................. YES = 1

b. Did you use the yield monitor information to---

   (i) monitor crop moisture content to determine need for crop drying? ........................................... YES = 1

   (ii) add/improve tile drainage? ................................................................. YES = 1

   (iii) add/improve irrigation equipment / irrigation water application? ........................................... YES = 1

   (iv) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc.)? ........................................... YES = 1

   (v) negotiate new crop leases? ..................................................................... YES = 1

   (vi) document yields for crop insurance, real estate tax, or farm program purposes? ......................... YES = 1

   (vii) accurately divide crop production among partners and/or for landlord crop shares? ...................... YES = 1

   (viii) other uses [specify: ___________________________] ..................................... YES = 1

13. During 2009 or 2010, was a GPS (Global Positioning System) device used to produce a map of the soil properties (such as nitrate levels, PH, soil type, etc.) of this field? ............. YES = 1

   a. [If YES, ask---] Was the information collected above based on---

      1  soil tests from this field?
      2  a machine that measured electrical conductivity of the soil in this field (e.g. Veris machine)?
      3  other? [Specify: ___________________________] ..................................... YES = 1

14. Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2010 growing season? ...................................................... YES = 1

15. Was a variable rate applicator used on this field for---

   a. fertilization or lime application? ...................................................................... YES = 1

      (i) [If YES, ask---]

         Did you use a variable rate applicator for---

         (1) nitrogen applications? ................................................................... YES = 1

         (2) phosphorus applications? ................................................................... YES = 1

         (3) potash applications? ................................................................... YES = 1

         (4) lime applications? ................................................................... YES = 1

         (5) manure applications? ................................................................... YES = 1

   b. seeding? ................................................................................................. YES = 1

   c. pesticide applications? .......................................................................... YES = 1

16. Was a guidance or auto-steering system (connected to GPS) used with any machine operation on this field (e.g. light bar) .......................................................... YES = 1
1. **How many acres in this field were irrigated for the 2010 corn crop?**

   [If none, go to Section H] ..............................................................................................................

   **ACRES** 1160

2. **Now, I have some questions about irrigation systems and water used on this field for the 2010 corn crop.**

   ![Table](image)

3. **What was the cost of the fuel or electricity used to irrigate this field?**

   (Include operator, landlord, and contractor costs.) ...............................................................................

   **DOLLARS & CENTS**

   **OR**

   **TOTAL DOLLARS**

   1189 1190
4. 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 5].
   a. What percent of the water used on this field was purchased?
   b. What was the total cost for the water purchased for this field during the 2010 growing season? (Include operator, landlord, and contractor costs and ditch maintenance costs for this field.)

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<tr>
<th>CODE</th>
<th>PERCENT</th>
<th>DOLLARS &amp; CENTS PER ACRE OR TOTAL DOLLARS</th>
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5. [If SIPHON TUBES were used (item 2a = 10 or 11), ask---]
   What would be the total cost to replace all the siphon tubes used on this field?

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<th>TOTAL DOLLARS</th>
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6. [If POLY PIPE system was used (item 2a = 14) ask---]
   What was the total amount spent for poly pipe used on this field during the 2010 growing season? (Include operator, landlord, and contractor costs.)

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<th>TOTAL DOLLARS</th>
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7. [If GATED PIPE system was used (item 2a = 15 or 16), ask---]
   a. What was the average diameter of gated pipe used to irrigate this field?
   b. What was the total length of gated pipe used?

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8. Were wells used to supply irrigation water for this field?
   □ YES – [Enter code 1 and continue] □ NO – [Go to item 9].
   a. How many wells were used to irrigate this field?
   b. What was the average diameter of the outer well casing?
   c. What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.]
   d. Did the well(s) have a water meter or other flow measurement device? YES = 1
   e. Were other fields irrigated using water pumped from well(s) that supplied water to the selected field?
      □ YES – [Enter code 1 and continue] □ NO – [Go to item 9].
   f. Excluding this field, how many other acres on this operation were irrigated using the same well(s) during the 2010 growing season?

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<th>CODE</th>
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9. Was any additional mainline or lateral pipe used to carry water from the source to the system in this field? \(\text{Include underground pipe. Exclude any system pipe within the selected field.}\)

☐ YES – [Continue]  ☐ NO – [Go to item 10]

INCHES

1212

FEET

1213

a. What was the average diameter (in inches) of the most common type of this additional pipe used?

b. How many feet of this additional pipe were used to bring water to this field?

10. Is the run-off from this field---

RUN-OFF CODES

1 retained at the end of the field?
2 reused to irrigate on the farm?
3 collected in evaporation ponds on the farm?
4 drained from the farm?
5 there is no run-off

CODE

1214
1. In response to higher or more volatile fuel prices during the 2010 crop year for corn, did you---
   a. reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications on this field (i.e., compared to what you would have otherwise applied)? YES = 1
   b. reduce the amount of irrigation water on this field (i.e., compared to what you would have otherwise applied)? YES = 1
   c. change other production practices on this field? [If yes, specify ] YES = 1
   d. leave the crop in the field to dry longer than you would have otherwise done on this field? YES = 1

2. In response to higher or more volatile fertilizer prices during the 2010 crop year for corn, did you---
   a. reduce the application rate of commercial nitrogen fertilizer on this field (i.e., compared to what you would have otherwise applied)? YES = 1
   (i) [If YES, ask---] By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2010? 
   b. change the type of commercial nitrogen fertilizer products applied on this field (i.e., compared to what you would have otherwise applied)? [e.g. less anhydrous ammonia and more UAN] YES = 1
   c. increase the application rate of manure or other organic fertilizers on this field (i.e., compared to what you would have otherwise applied)? YES = 1
   d. manage fertilizer more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field (i.e., compared to what you would have otherwise done)? YES = 1

3. Was this field irrigated in 2009 and in 2010?
   □ YES – [Continue] □ NO – [Go to item 5]

4. Did you alter production practices in 2010 due specifically to reduced availability of water supplies for irrigation on this field? YES = 1
   [If YES, continue; else go to item 5]
   a. Did you irrigate fewer corn acres on this field in 2010 due to reduced availability of water supplies? YES = 1
   b. Did you reduce the water applied to this field in 2010 due to reduced availability of water supplies? YES = 1

5. In response to expected high corn prices at the beginning of the 2010 growing season, did you plant corn on this field rather than planting another crop according to the field’s scheduled crop rotation? YES = 1
   a. [If YES, ask---] Which crop was scheduled to be planted on this field in 2010? [Enter crop code from CROP CODE LIST on page 8.]
   b. Which crop are you most likely to plant on this field in the SPRING/SUMMER of 2011? [Enter crop code from CROP CODE LIST on page 8.]
1. We will need additional information to complete this study. We will contact you in February or March 2011 to collect it. I'll call you then to set up a time that is good for you.

2. To receive the complete results of this survey on the release date, go to www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date? YES = 1

3. ENDING TIME [MILITARY].

RECORDS USED

4. [Did respondent use farm/ranch records to report---]  
   a. [fertilizer data?] YES = 1
   b. [pesticide data?] YES = 1
   c. [majority of this expense data?] YES = 1

SUPPLEMENTS USED

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

Reported by:_________________________________________________ Telephone: (_____)

<table>
<thead>
<tr>
<th>Response</th>
<th>Respondent</th>
<th>Mode</th>
<th>Enum</th>
<th>Eval.</th>
<th>Date</th>
<th>Optional</th>
</tr>
</thead>
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<td>9901</td>
<td>1-Op/Mgr</td>
<td>9902</td>
<td>9903</td>
<td>0098</td>
<td>0100</td>
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<tr>
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<td>3-Inac</td>
<td>2-Tel</td>
<td>3-Face-to-Face</td>
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<td>0002</td>
<td>0003</td>
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