



**AGRICULTURAL RESOURCE MANAGEMENT SURVEY
CORN PRODUCTION PRACTICES
AND COSTS REPORT**



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

for 2010

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VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
2	_____	01	_____	0	000	00



CONTACT RECORD

DATE	TIME	NOTES

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.

H H M M

BEGINNING TIME
[MILITARY]

0004 ____

SCREENING BOX

0006

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

POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
POID _____	POID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

A

CORN FIELD SELECTION

A

TOTAL PLANTED ACRES

0050 _____

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.

TOTAL NUMBER OF FIELDS PLANTED

0020 _____

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.]

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

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

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

APPLY "RANDOM NUMBER" LABEL HERE

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?

CODE

YES – [Enter code 1] DON'T KNOW – [Enter code 2] NO – [Enter code 3].

0039

OFFICE USE
OY Field Substituted

0022

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of corn did this operation plant in this field for the 2010 crop? ACRES
1301

a. Are the acres in this field **CERTIFIED ORGANIC**? YES = 1 CODE
1311

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

b. Was this field transitioning into organic corn production in 2010? YES = 1 CODE
1399

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?
 CODE
1302

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? DOLLARS & CENTS
PER ACRE
1303

4. [If field is SHARE RENTED (item 2 = 4 or 5), ask---]
 What was the landlord's share of the crop from this field? PERCENT
1304

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.) DOLLARS & CENTS
PER ACRE
1305 OR TOTAL DOLLARS
1306

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.) DOLLARS & CENTS
PER ACRE
1309 OR TOTAL DOLLARS
1310

7. What year did you (the operator listed on the label) start operating this field? YEAR
1307

8. On what date was this field planted? MM DD YY
1308

9. Was the corn on this field planted with the intention of being harvested as---

- 1 GRAIN
- 2 SILAGE
- 4 SEED
- 25 OTHER

CODE

1327

a. [If item 9 = 1, ask---]

What was the intended purpose for the grain---

- 1 FOOD
- 2 ETHANOL
- 3 FEED
- 4 OTHER [Specify: _____]
- 5 UNKNOWN (Delivered to elevator)

1316

INCHES

1312

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

UNIT CODES for Seeding Rate

- 1=Pounds/Acre
- 2=CWT/Acre
- 4=Bushels/Acre
- 25=Kernels-Seeds/Acre
- 38=Kernels-Seeds/Foot

UNITS

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

1313	1314
------	------

12. How many acres in this field had to be replanted to corn?

(Acres replanted = Number of acres x Number of times replanted).....

ACRES

1315

UNIT CODE

- 1 = Pound
- 2 = CWT
- 4 = Bushel
- 22 = Acre
- 23 = Approx. 80,000 Kernel Bag

DOLLARS & CENTS PER UNIT

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.).....

1319	1320
------	------

SEED TYPE - CORN	
1	Genetically-modified herbicide resistant seed variety (e.g. <i>LIBERTYLINK</i> ; <i>ROUNDUP READY CORN</i>)
2	Non-genetically-modified herbicide resistant seed variety (e.g. <i>IMI-CORN</i>)
3	Genetically-modified Bt variety for insect resistance to control the European Corn Borer (Bt-ECB) (e.g. <i>YIELDGARD</i> , <i>YIELDGARD CORN BORER</i> , <i>HERCULEX I</i> , <i>NATUREGARD</i> , <i>KNOCKOUT</i>)
4	Genetically-modified Bt variety for insect resistance to control the corn rootworm (Bt-CRW) (e.g. <i>YIELDGARD ROOTWORM</i> , <i>HERCULEX RW</i>)
5	Stacked gene (trait) variety with both genetically-modified Bt-ECB and Bt-CRW (e.g. <i>YIELDGARD PLUS</i> , <i>HERCULEX XTRA</i>)
6	Stacked gene variety with two genetically-modified herbicide resistant traits (e.g. <i>LIBERTYLINK</i> + <i>ROUNDUP READY</i>)
7	Stacked gene variety with both genetically-modified Bt-ECB and herbicide resistant (e.g. <i>YIELDGARD</i> + <i>ROUNDUP READY</i> , <i>YIELDGARD CORN BORER WITH ROUNDUP READY CORN 2</i> , <i>HERCULEX I</i> + <i>LIBERTYLINK</i>),
8	Stacked gene variety with both genetically-modified Bt-CRW and herbicide resistant (e.g. <i>YIELDGARD ROOTWORM WITH ROUNDUP READY CORN 2</i> , <i>HERCULEX CW</i> + <i>ROUNDUP READY CORN</i>)
9	Triple stacked gene variety with genetically-modified Bt-ECB and Bt-CRW plus herbicide resistant traits (e.g. <i>YIELDGARD PLUS WITH ROUNDUP READY CORN 2</i> , <i>HERCULEX XTRA</i> + <i>LIBERTYLINK</i>)
10	New stacked gene varieties that, in addition to the ECB and the rootworm, can control the corn earworm (e.g. <i>YIELDGARD VT TRIPLE WITH ROUNDUP READY 2</i> , <i>GENUITY VT TRIPLE PRO</i>)
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. <i>GENUITY SMARTSTAX</i>)
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.]

CODE
1321
1322

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---

- | | |
|---|---|
| 1 | Did not expect to have enough corn borers and/or corn rootworms to justify the cost of Bt corn. |
| 2 | Concerned about finding a market for Bt corn. |
| 3 | This field was used as refuge in 2010. |
| 4 | Concerned about the environmental impact of Bt corn. |
| 5 | Not aware of Bt Seed. |
| 6 | Other [Specify _____] |

CODE
1324

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

- | | |
|---|--|
| 1 | Increase yields through improved pest (weed or insect) control? |
| 2 | Decrease pesticide input costs? |
| 3 | Decrease machinery costs? |
| 4 | Improve ability to use or ease of using reduced tillage or no-till system? |
| 5 | Improve ability to use or ease of rotating crops? |
| 6 | Save management time or labor or improve ease of management? |
| 7 | Adopt more environmentally friendly practices? |
| 8 | For some other reason(s)? [Specify _____] |

CODE
1325

17. What percentage of the field was used as refuge for insect pests in order to comply with Bt corn insect resistance management guidelines?

PERCENT
1326

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

CODE

1317
1323
1318

19. Was the corn in the field produced under a production contract?

(Exclude corn sold under a marketing contract.) YES = 1

1329

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

1328

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)---	1		2	
	ACRES	UNITS PER ACRE	UNIT CODE	CODE
a. harvested for grain?	1346	1347	1 POUNDS 2 CWT 3 TONS 4 BUSHELS	1348
b. harvested for silage or green chop?	1349	1350	TONS	
c. harvested for commercial seed contract?	1431	1432		1433
d. abandoned?	1351			
e. used for some other purpose?	1439			

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].

CODE

1354

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 _____] |

CODE

1398

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

ACRES

1355

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

TOTAL TONS

1356

$$\frac{\text{---}}{\text{Tons per Acre}} \times \text{--- Acres} = \frac{\text{---}}{\text{Total Tons}} \quad \text{OR} \quad \frac{\text{---}}{\text{Bales}} \times \frac{\text{---}}{\text{Lbs per Bale}} \div \frac{2000}{\text{Lbs per Ton}} = \frac{\text{---}}{\text{Total Tons}}$$

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].

CODE

1400

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

- | |
|-------------------------|
| 1 Cattle |
| 2 Sheep |
| 3 Other [Specify _____] |

CODE

1361

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

HEAD

1362

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

DAYS

1363

CROP CODE LIST for item 26 – PREVIOUSLY PLANTED CROPS

190 Barley	3 Dry Beans	21 Rice	193 Tobacco, burley
85 Canola	17 Dry Peas	22 Rye	196 Tobacco, flue cured
310 Clover	311 Grasses other than clover	98 Safflower	42 Vegetables
6 Corn for grain	1 Hay, alfalfa	25 Sorghum for grain	163 Wheat, durum
5 Corn for silage	11 Hay, all other	24 Sorghum for silage	164 Wheat, other spring
282 Cotton, Pima	94 Mustard Seed	26 Soybeans	165 Wheat, winter
281 Cotton, Upland	15 Oats	28 Sugarbeets	
302 CRP	16 Peanuts	30 Sunflowers	318 No crop planted during this period
	20 Potatoes	31 Sweet Potatoes	

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

1 What crops were PLANTED on this field in---			2 Was this a cover crop?	3 How did you manage this crop?	4 Was this field irrigated?	5 Was this field no-tilled?
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1	1 Plowed-in 2 Chisled-in 3 Chemical-killed 4 Rolled 5 Grazed 6 Harvested 7 Disked	YES = 1	1/ YES = 1
a. FALL of 2009?		1343	1470	1471	1344	1345
b. SPRING/SUMMER of 2009?		1369	1472	1473	1370	1371
c. FALL of 2008?		1372	1474	1475	1373	1374
d. SPRING/SUMMER of 2008?		1375	1476	1477	1376	1377
e. FALL of 2007?		1378	1478	1479	1379	1380
f. SPRING/SUMMER of 2007?		1381	1480	1481	1382	1383
g. FALL of 2006?		1366	1482	1483	1367	1368
h. SPRING/SUMMER of 2006?		1340	1484	1485	1341	1342

1/ Soil and previous crop residue left undisturbed from harvest to planting.

DOLLARS & CENTS
PER ACRE

i. [If a cover crop was planted in Spring/Summer/Fall 2009, ask--]

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

1468

27. In 2010, did your land-use practices for this field include any of the following---

1 LAND-USE PRACTICE	2 Was this practice used? YES = 1	3 What year was this practice first used? YEAR	4 Was (or will there be) an incentive or cost-share received from: 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Security or Conservation Stewardship Programs (CSP)? 3 Conservation Reserve Program (CRP)? 4 Any other Federal, State, Local or non-government source? CODE
a. Structures for soil erosion control?	1421		
(i) Terraces.	1420	1441 _ _ _ _ _	1451
(ii) Grade stabilization structures.	1422	1442 _ _ _ _ _	1452
b. Structures for storm water runoff control/handling?	1423		
(i) Grassed waterways.	1438	1443 _ _ _ _ _	1453
(ii) Structures for water control basins.	1424	1444 _ _ _ _ _	1454
c. Filter strips or other conservation buffers?	1425		
(i) Filter strips.	1426	1445 _ _ _ _ _	1455
(ii) Field borders.	1427	1446 _ _ _ _ _	1456
(iii) Riparian buffers (i.e., grass buffers).	1428	1447 _ _ _ _ _	1457
d. Other Practices?	1435		
(i) Contour farming and strip cropping.	1434	1448 _ _ _ _ _	1458
(ii) Conservation tillage / no-till.	1437	1449 _ _ _ _ _	1459
(iii) Other Practices [Specify _____] ...	1436	1450 _ _ _ _ _	1460

OFFICE USE

1440

CODE

28. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"? YES = 1 1404
29. Have you been notified by NRCS that this field contains a wetland? YES = 1 1405
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 1406

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 1407

[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 | 1418 |
|--|---|--|

- 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 | 1419 |
|--|---|--|

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.)

1 WRITTEN PLAN TYPE	2 Was this type of written plan used? YES = 1	3 What year was this plan implemented? YEAR	4 For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from: CODE
a. Conservation plan specifying practices to reduce soil erosion?	1408	1409 ____ _	1461
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?	1410	1411 ____ _	1462
c. Nutrient management plan specifying practices for land application of manure only?	1412	1413 ____ _	1463
d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?	1414	1415 ____ _	1464
e. Irrigation water management plan specifying practices for applying or conserving irrigation water?	1416	1417 ____ _	1465

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

CODE

1352

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 PER ACRE

1353

OR

TOTAL DOLLARS

1384

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].

CODE

1385

a. Which coverage did you obtain?

- 1 Basic catastrophic insurance (Federal CAT)
- 2 Buy-up above basic federal CAT level
- 3 Revenue insurance
- 4 Organic plan insurance
- 5 Other Federal Crop insurance

CODE

1386

(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

c. What is the 2010 Approved APH (actual production history) yield for this field?

BUSHEL 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 PER ACRE

1390

OR

TOTAL DOLLARS

1391

e. Did you (or will you) collect an indemnity payment for this field from federal crop insurance during 2010? YES = 1

CODE

1392

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].

CODE

1393

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

DOLLARS & CENTS PER ACRE

1395

OR

TOTAL DOLLARS

1396

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

CODE

1394

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]

OFFICE USE

0215

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].

DOLLARS & CENTS PER ACRE

0219

OR TOTAL DOLLARS

0220

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

0221

OR TOTAL DOLLARS

0222

CODE

0218

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

UNITS PER ACRE

0216

0217

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]

CODE

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---]

How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?

0225

POUNDS PER ACRE

0226

CODE

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---]

How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?

0227

POUNDS PER ACRE

0228

CODE

12. Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field for the 2010 crop? YES = 1

0229

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
13. How much was spent for these soil and plant tissue tests on this field? <i>(Include operator, landlord, and contractor costs.)</i>	0230		0231

a. If tests were done at no cost, explain---	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		CODE	0232
--	---	--	-------------	------

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---	CODE
a. Results of a soil or plant tissue test? YES = 1	0233
b. Crop consultant recommendation? YES = 1	0234
c. Fertilizer dealer recommendation? YES = 1	0235
d. Extension Service recommendation? YES = 1	0236
e. Cost of nitrogen and/or expected commodity price? YES = 1	0237
f. Contractor recommendation? YES = 1	0238
g. Routine practice <i>(operator's own determination based on past experience, yield goal, etc.)</i> ? YES = 1	0239

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? YES = 1	CODE	0223
a. <i>[If YES, ask--]</i> What month prior to planting for the 2010 crop did you contract for the fertilizer used on this field? <i>[Enter code "1" for January, "2" for February, etc.]</i>	CODE	0224

17. Which of the following products did you use to slow the breakdown of nitrogen on this field?	1 Nitrification inhibitors <i>(such as N-Serve)</i> 2 Urease inhibitors <i>(such as Agrotain)</i> 3 Chemical-coated fertilizers <i>(such as sulfur-coated urea and polymer-coated urea)</i> 4 Other inhibitors 5 None		CODE	0241
---	---	--	-------------	------

a. <i>[If nitrogen inhibitors were used, continue; else go to item 18.]</i> How much nitrogen inhibitor did you mix with the nitrogen applied to this field?	POUNDS PER ACRE	OR	GALLONS PER ACRE
	0295		0296

b. What was the cost of the nitrogen inhibitors used on this field? <i>(Include operator, landlord, and contractor costs.)</i>	DOLLARS AND CENTS PER POUND	OR	DOLLARS AND CENTS PER GALLON
	0297		0298

18. Is lime ever applied to this field? YES = 1 CODE
0242

[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? YEARS
0243

b. How many tons of lime were applied per acre the last time it was applied to this field? TONS PER ACRE
0244

c. Was lime applied to this field in 2009 or 2010 for the 2010 crop? YES = 1 CODE
0240

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)? PERCENT
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] CODE
0246

a. How many acres in this field was manure applied to? ACRES
0247

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

1 TONS
2 GALLONS
3 BUSHELS

CODE
0248 AND UNITS PER ACRE OR
0249 TOTAL UNITS
0250

c. What is the distance between the manure storage/production location and this field? MILES
0251

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

1 TONS
2 GALLONS
3 BUSHELS

CODE
0252 AND TOTAL UNITS
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? + PERCENT
0254
(ii) in the spring before planting? + 0255
(iii) after planting? + 0256
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---

- 1 Beef cattle?
- 2 Dairy cattle?
- 3 Hogs?
- 4 Sheep?
- 5 Poultry?
- 6 Equine?
- 7 Biosolids (*municipal sludge*)?
- 8 Food waste?
- 9 Other? [*Specify _____*]

CODE

0259

i. Was the manure---

- 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 manure.*)

CODE

0260

(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.*)

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

0284

0285

CODE

0286

(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.*]

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

0287

0288

CODE

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

0261

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

0262

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

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

PERCENT

0263

CODE

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

0280

CODE

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

0264

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

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

CODE

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

0265

(ii) Phosphorus requirement of the crop? YES = 1

0266

21. Was compost applied to this field for the 2010 corn crop?

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

CODE

0267

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

ACRES

0268

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

1 Tons 2 Cubic Yards	CODE	0269	AND	UNITS PER ACRE	0270	OR	TOTAL UNITS
					. ____		0271
							. ____

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 (<i>municipal sludge</i>)? 8 Food waste? 9 Crop? [<i>Specify _____</i>] 10 Other? [<i>Specify _____</i>]	[Enter up to 3 source codes]
	FIRST
	0281
	SECOND
	0282
	THIRD
	0283

d. Was the compost---

1 Produced on this operation? 2 Purchased? 3 Obtained at no cost off this operation? 4 Obtained with compensation? (<i>Operator received payment for accepting the compost.</i>)	CODE
	0272

(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.*)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0273		0274
. ____		

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

CODE

0275

(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.*]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0276		0277
. ____		

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

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

MILES

0299

D BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

D

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).]

CODE	EDIT TABLE
0302	0301

YES = 1

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

<p>Include defoliant, fungicides, herbicides, insecticides, and other pesticides.</p> <p>Include biological and botanical pesticides.</p>	<p>Exclude nutrients or fertilizers reported earlier and seed treatments.</p>	T - TYPE 3	TABLE 001
		LINE 99	OFFICE USE LINE IN TABLE
			0319

CHEMICAL PRODUCT NAME	LINE	2	3	4	5	6	OR	7	8
		What products were applied to this field? <small>[Show product codes from Respondent Booklet.]</small>	Was this product bought in liquid or dry form? <small>[Enter L or D]</small>	Was this part of a tank mix? <small>[If tank mix, enter line number of first product in mix.]</small>	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	How much was applied per acre per application?	What was the total amount applied per application in this field?	<small>[Enter unit code.]</small> 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams	
	01	0305		0306	0307	0308		0309	0310
	02	0305		0306	0307	0308		0309	0310
	03	0305		0306	0307	0308		0309	0310
	04	0305		0306	0307	0308		0309	0310
	05	0305		0306	0307	0308		0309	0310
	06	0305		0306	0307	0308		0309	0310
	07	0305		0306	0307	0308		0309	0310
	08	0305		0306	0307	0308		0309	0310
	09	0305		0306	0307	0308		0309	0310
	10	0305		0306	0307	0308		0309	0310
	11	0305		0306	0307	0308		0309	0310
	12	0305		0306	0307	0308		0309	0310
	13	0305		0306	0307	0308		0309	0310
	14	0305		0306	0307	0308		0309	0310

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify---]

LINE	Pesticide Type <small>(Herbicide, Insecticide Fungicide, etc.)</small>	EPA No. or Trade name and Formulation	Form Purchased <small>(Liquid or Dry)</small>	Where Purchased <small>[Ask ONLY if EPA No. cannot be reported.]</small>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?

- YES – [Continue]
- NO – [Go to item 4]

OFFICE USE

a. Are you able to report the cost of chemical, biocontrol, and pesticide products and custom application separately?

0324

- 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.

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.] |

CODE

0808

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

0809

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

a. a pest advisory warning?

0810

b. a pest development model?

0811

1	2	3
	[If YES, ask---] What was the infestation level for [column 1] ?	[If column 1 is YES, ask---] Who did the majority of the scouting for [column 1] ?
	1 Worse than normal 2 Normal 3 Less than normal	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout
13. Was this corn field scouted for---	YES = 1	CODE
a. weeds?	0812	0813
b. insects or mites?		
(i) corn borer?	0831	0832
(ii) corn rootworm?	0834	0835
(iii) other insects?	0837	0838
c. diseases?	0818	0819
		0820

[If scouted by crop consultant or commercial scout, ask item 14; else go to item 15.]

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

(Include operator, landlord, and contractor costs.)

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

0821

0822

OFFICE USE

a. [If scouting performed at no cost, explain: _____]

0333

CODE

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

0823

		CODE
16.	Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field? YES = 1	0824
17.	Did you use field mapping of previous weed problems to assist you in making weed management decisions? YES = 1	0825
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.]	CODE
a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field? YES = 1	0841
b.	Plow down crop residue (<i>using conventional tillage</i>)? YES = 1	0842
c.	Remove/burn down crop residue? YES = 1	0843
d.	Rotate crops in this field during the past 3 years? YES = 1	0844
e.	Maintain ground covers, mulches, or other physical barriers? YES = 1	0845
f.	Choose crop variety because of specific resistance to a certain pest? YES = 1	0846
g.	Use no-till or minimum till? YES = 1	0847
h.	Plan planting locations to avoid cross infestation of pests? YES = 1	0848
i.	Adjust planting or harvesting dates? YES = 1	0849
j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines? YES = 1	0850
k.	Clean equipment and field implements after completing field work to reduce the spread of pests? YES = 1	0851
l.	Adjust row spacing, plant density or row directions? YES = 1	0852
m.	Have the seed treated for insect or disease control after you purchased the seed for this field? YES = 1	0854
n.	Maintain a beneficial insect or vertebrate habitat? YES = 1	0855
o.	Maintain buffer strips or border rows to isolate corn from non-organic crops or land, or did you take a buffer harvest? YES = 1	0856
p.	Use a flamer to kill weeds? YES = 1	0857
q.	Plant earlier or later to avoid weeds? YES = 1	0865

19. **Were any beneficial organisms (insects, nematodes, fungi) applied or released in this field to manage pests?** YES = 1 CODE
0853

20. **Were floral lures, attractants, repellants, pheromone traps or other biological pest controls used on this field?** YES = 1 0858

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 CODE
0863

22. **Was this field left fallow in 2009 to help manage insects on this field?** YES = 1 0864

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 0861

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 0866

b. Did you change to an alternative pesticide, biocontrol, or non-pesticide practice? YES = 1 0867

25. **Did you cultivate this field for weed control?** YES = 1 0868

a. [If yes, ask--]
How many times? NUMBER
0869

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?** UNIT CODES
1 POUNDS
2 CWT
3 TONS
4 BUSHELS

UNITS PER ACRE	
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

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]

YEAR

0874

a. What year was this field first infested with glyphosate-resistant weeds?

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---**

CODE

a. stop planting glyphosate-tolerant seeds? YES = 1

0875

b. apply other herbicides in addition to glyphosate? YES = 1

0876

c. change tillage practices? YES = 1

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

YEAR

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.**

0879

Completion Code for Pest Management Data	
1 Incomplete/Refusal	0340

F **FIELD OPERATIONS---**SELECTED FIELD

F

1. Now I need to list all tractors used to produce corn on the selected field.

CHECK LIST	
Include	Exclude
<input type="checkbox"/> Tractors owned, rented, leased or borrowed	<input type="checkbox"/> Tractors provided by custom operators

1	2 What tractors were used on this field? 1 John Deere & Company 2 AGCO (Challenger, Massey-Ferguson, Caterpillar) 3 Ford New-Holland (Case) 4 Kubota 5 Other [Specify: _____] CODE	3 What is the model year? (Example: 2004) YEAR	4 Is this vehicle a---? 2 2-wheel drive tractor 3 2-wheel drive tractor with front wheel assist 4 4-wheel drive tractor 5 crawler or other tracked-tractor 6 other tractor CODE	5 What is its PTO Horsepower? PTO HORSEPOWER	6 Is it---? 1 diesel 2 gasoline 3 LP gas 9 other CODE
1	0110	0120 _____	0121	0122	0123
2	0111	0124 _____	0125	0126	0127
3	0112	0128 _____	0129	0130	0131
4	0113	0132 _____	0133	0134	0135
5	0114	0136 _____	0137	0138	0139
6	0115	0140 _____	0141	0142	0143
7	0116	0144 _____	0145	0146	0147
8	0117	0148 _____	0149	0150	0151
9	0118	0152 _____	0153	0154	0155
10	0119	0156 _____	0157	0158	0159

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 _____

3. 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---	
<input type="checkbox"/>	Land Forming/Levee Building
<input type="checkbox"/>	Tillage
<input type="checkbox"/>	Preparing for Irrigation
<input type="checkbox"/>	Planting
<input type="checkbox"/>	Fertilizer & Pesticide applications
<input type="checkbox"/>	Harvesting & Hauling to storage or first point of sale
Exclude	
<input type="checkbox"/>	Lime & Gypsum/landplaster applications

2	3	4	5	[IF CUSTOM (column 5 = code 6) , skip columns 6-10]					
				6	7	8	9	10	
No.	What operation or equipment was used?	[Record machine code from Respondent Booklet.] CODE	Who was the machine operator? [Enter code from above.] CODE	What was the size or swath of the [machine] used?	[Record size unit code.] 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons CODE	What was the power source? [Record tractor line number from item 1.] OR 66 Animal Drawn 77 Pick up 99 Self-Propelled 1/ CODE	How many acres were covered? [Exclude land forming and hauling operations] ACRES	How many TOTAL HOURS were spent on land forming and hauling? [Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons forklifts, etc.] HOURS	
0351		0352	0353	0354	0355	0356	0357	_____	0359
0361		0362	0363	0364	0365	0366	0367	_____	0369
0371		0372	0373	0374	0375	0376	0377	_____	0379
0381		0382	0383	0384	0385	0386	0387	_____	0389
0391		0392	0393	0394	0395	0396	0397	_____	0399
0401		0402	0403	0404	0405	0406	0407	_____	0409
0411		0412	0413	0414	0415	0416	0417	_____	0419
0421		0422	0423	0424	0425	0426	0427	_____	0429
0431		0432	0433	0434	0435	0436	0437	_____	0439
0441		0442	0443	0444	0445	0446	0447	_____	0449
0451		0452	0453	0454	0455	0456	0457	_____	0459
0461		0462	0463	0464	0465	0466	0467	_____	0469
0471		0472	0473	0474	0475	0476	0477	_____	0479
0481		0482	0483	0484	0485	0486	0487	_____	0489
0491		0492	0493	0494	0495	0496	0497	_____	0499
0501		0502	0503	0504	0505	0506	0507	_____	0509
0511		0512	0513	0514	0515	0516	0517	_____	0519
0521		0522	0523	0524	0525	0526	0527	_____	0529

1/ If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.

OFFICE USE

0032

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.)

TYPE OF WORKERS	1 How many hours did (type of worker) spend on this field---		
	a.	b.	c.
	scouting for weeds, insects and diseases? HOURS	irrigating? HOURS	performing other work by hand? HOURS
You (the operator)	1101	1102	1103
Partner(s)	1104	1105	1106
Unpaid workers	1107	1108	1109
Paid part-time or seasonal workers (Exclude custom and contract labor)	1110	1111	1112
Paid full-time workers (Exclude custom and contract labor)	1113	1114	1115

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.) **DOLLARS & CENTS PER HOUR**

6. **What was the average hourly wage rate paid to full-time hired workers?**
 (**Exclude** custom and contract workers, payroll taxes and benefits.) **DOLLARS & CENTS PER HOUR**

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

a. [If YES, ask ---]
 What was the average cost per acre for this contract labor?
 (**Include** operator, landlord, and contractor costs.) **DOLLARS & CENTS PER ACRE**

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.*) **PERCENT**

9. Now I need some information on how much was spent for custom services used on this field for the 2010 corn crop.

1 CUSTOM SERVICE Which of the following services were performed for the 2010 corn crop on this field? ← [Check box for each service performed; refer to item 3 if necessary.]	2 Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2010 corn crop? DOLLARS & CENTS PER ACRE
<input checked="" type="checkbox"/> a. Custom land preparation, shaping and/or leveling $\frac{\text{---}.\text{---}}{\text{---}} \times \text{---} = \text{---} \div \text{---} = \text{---}.\text{---}$ (Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre) . . .	1121 . ---
<input type="checkbox"/> b. Custom cultivating	1122 . ---
<input type="checkbox"/> c. Custom planting and/or reseeding	1123 . ---
<input type="checkbox"/> d. Custom harvesting	1124 . ---
<input type="checkbox"/> e. Custom hauling to storage or point of first sale $\frac{\text{---}.\text{---}}{\text{---}} \times \text{---} \div \text{---} = \text{---}.\text{---}$ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1126 . ---
<input type="checkbox"/> f. Custom harvesting and hauling from field to storage or point of first sale $\frac{\text{---}.\text{---}}{\text{---}} \times \text{---} \div \text{---} = \text{---}.\text{---}$ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1127 . ---

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?

	CODE
a. Nutrient recommendations/management service? YES = 1	1129
b. Soil or tissue sample collection? YES = 1	1130
c. Pest control recommendations/management service? YES = 1	1131
d. Pest scouting? YES = 1	1132
e. Irrigation management service (i.e. irrigation scheduling)? YES = 1	1133
f. Yield map or remote sensing map development/interpretation? YES = 1	1134
g. Other custom or technical service? [Specify: _____] YES = 1	1135

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.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1136 . ---		1137 .

		CODE
12. Was there (or will there be) a yield monitor on the equipment used to harvest this corn field?	YES = 1	1138
[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	1139
b. Did you use the yield monitor information to---		
(i) monitor crop moisture content to determine need for crop drying?	YES = 1	1140
(ii) add/improve tile drainage?	YES = 1	1141
(iii) add/improve irrigation equipment / irrigation water application?	YES = 1	1142
(iv) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc.)?	YES = 1	1143
(v) negotiate new crop leases?	YES = 1	1144
(vi) document yields for crop insurance, real estate tax, or farm program purposes?	YES = 1	1145
(vii) accurately divide crop production among partners and/or for landlord crop shares?	YES = 1	1146
(viii) other uses [specify: _____]	YES = 1	1147
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	1148
a. [If YES, ask--]		
Was the information collected above based on---	<div style="border: 1px solid black; padding: 5px; width: fit-content;"> 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: _____] </div>	1149
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	1151
15. Was a variable rate applicator used on this field for---		1152
a. fertilization or lime application?	YES = 1	
(i) [If YES, ask--]		
Did you use a variable rate applicator for---		1153
(1) nitrogen applications?	YES = 1	1154
(2) phosphorus applications?	YES = 1	1155
(3) potash applications?	YES = 1	1156
(4) lime applications?	YES = 1	1157
(5) manure applications?	YES = 1	1158
b. seeding?	YES = 1	1159
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	1150

NOTES

ACRES

1. How many acres in this field were irrigated for the 2010 corn crop?

[If none, go to Section H].

1160

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

	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was (or were) used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres].	SYSTEM TYPE CODE	1161	1175
b. What was the total quantity of water applied to this field during the entire growing season? (Include ALL water used from both on-farm and off-farm sources.)	INCHES PER ACRE	1162	1176
	OR TOTAL ACRE-FEET	1163	1177
[If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]			
(i) What is the total number of hours this system was used to apply water to this field during the corn growing season?	TOTAL HOURS	1164	1178
(ii) How many gallons per minute were applied?	GALLONS PER MINUTE	1165	1179
c. What percent of the water used to irrigate this field through this system came from surface water sources?	PERCENT	1166	1180
d. What was the number of times this field was irrigated during the corn growing season using this system? (Include any pre-plant irrigation.)	NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [If more than one pump in the system, enter type for pump closest to water source.]	CODE	1168	1182
	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If code 99, go to item j.]		
f. What was the average pumping rate?	GALLONS PER MINUTE	1169	1183
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask---] What was the system operating pressure?	POUNDS PER SQUARE INCH	1170	1184
h. What was the primary motor type used to pump the water?	CODE	1171	1185
	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER		
i. What was the average motor size?	HORSEPOWER	1172	1186
j. [If NO PUMP was used (item 2e = 99), ask---] What was the average flow rate?	GALLONS PER MINUTE	1173	1187
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2010 growing season? (Exclude this field.)	ACRES	1174	1188

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

(Include operator, landlord, and contractor costs.)

	DOLLARS & CENTS PER ACRE	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.]

CODE
1191

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

PERCENT
1192

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.)*

DOLLARS & CENTS PER ACRE OR **TOTAL DOLLARS**
1193 1194

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?

TOTAL DOLLARS
1201

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.)*

TOTAL DOLLARS
1202

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?

INCHES
1203

b. What was the total length of gated pipe used?

FEET
1204

8. **Were wells used to supply irrigation water for this field?**
 YES – [Enter code 1 and continue] **NO** – [Go to item 9].

CODE
1205

a. How many wells were used to irrigate this field?

NUMBER
1206

b. What was the average diameter of the outer well casing?

INCHES
1207

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.]

FEET
1208

d. Did the well(s) have a water meter or other flow measurement device?

CODE
1209

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].

CODE
1210

f. Excluding this field, how many other acres on this operation were irrigated using the same well(s) during the 2010 growing season?

ACRES
1211

9. Was any additional mainline or lateral pipe used to carry water from the source to the system in this field? (Include underground pipe. Exclude any system pipe within the selected field.)

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

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

INCHES

1212

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

FEET

1213

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

CODE

1220
1222
1223
1219

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

CODE

1224

PERCENT

1225

CODE

1226
1227
1228

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

CODE

1221
1229
1230

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.] ...

1232

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.] ...

1234

CONCLUSION

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

CODE

0099

HH MM

0005

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

RECORDS USED

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

CODE

a. [fertilizer data?]..... YES = 1

0011

b. [pesticide data?]..... YES = 1

0012

c. [majority of this expense data?]..... YES = 1

0013

NUMBER

SUPPLEMENTS USED

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

FERTILIZER APPLICATIONS

0041

PESTICIDE APPLICATIONS

0042

FIELD OPERATIONS

0043

Reported by: _____ Telephone: (____) _____

Response		Respondent		Mode		Enum	Eval.	Date	Optional	
								MM DD YY		
1-Comp	9901	1- Op/Mgr	9902	2-Tel	9903	0098	0100	9910	0002	0003
2-R		2-Sp		3-Face-to-Face						
3-Inac		3-Acct/Bkpr								
		4-Partner								
		9-Other								
S/E Name										

_____ 10