



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

**AGRICULTURAL RESOURCE MANAGEMENT STUDY  
CORN PRODUCTION  
PRACTICES and COSTS REPORT  
for 2001**

Form Approved  
O.M.B. Number 0535-0218  
Approval Expires 12/31/03  
Project Code 906  
Phase II

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<b>VERSION</b> <b>02</b>	<b>ID</b> _____	<b>TRACT</b> <b>01</b>	<b>SUBTRACT</b> _____	<b>T-TYPE</b> <b>0</b>	<b>TABLE</b> <b>000</b>	<b>LINE</b> <b>00</b>
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ECONOMIC RESEARCH SERVICE

**CONTACT RECORD**

TIME	NOTES

<b>R CODES</b>	
3 - COMPLETE	0910
5 - OUT OF SCOPE	<b>P910</b>
8 - REFUSAL	
9 - INAC./INCOMPL.	
OPTIONAL	0002
	<b>P2</b>
OPTIONAL	0003
	<b>P3</b>

**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. Response to this survey is confidential and voluntary.

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

<b>BEGINNING TIME</b> [MILITARY]	<b>H H M M</b> 0004
	<b>P4</b>

**SCREENING BOX**

0006
<b>P6</b>

**[ENUMERATOR NOTE: If Screening box is code 1, complete the Screening Supplement. If Screening box is not coded, begin with Section A.]**

**OFFICE USE**

Completion Code 3 = ZERO TARGET	0008
	<b>P8</b>

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

<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER NAME</i>	<i>PARTNER NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>	<i>CITY STATE ZIP PHONE NUMBER</i>
<b>POID</b> _____	<b>POID</b> _____
<i>PARTNER NAME</i>	<i>PARTNER NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>	<i>CITY STATE ZIP PHONE NUMBER</i>

# A CORN FIELD SELECTION

1. How many acres of corn did this operation plant for the 2001 crop year?

[> If no acres planted, review Screening Survey Information Form. Make notes, then go to item 4 on back page.]

TOTAL PLANTED ACRES

0019 A0100

2. How many of the total [item 1] corn acres were--

- a. owned by this operation? .....
- b. rented for CASH? .....
- c. SHARE rented? .....
- d. used RENT-FREE? .....

ACRES	
0044	A02a0
0045	A02b0
0046	A02c0
0047	A02d0

[Total must equal item 1.]

3. I will follow a simple procedure to make a random selection from the corn fields planted for the 2001 crop.

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

TOTAL NUMBER OF FIELDS PLANTED

0020 A0300

[If only 1 field, enter 1 and go to item 5.]

4. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

- > [If there are more than 18 fields make sure item 3 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**

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

8 \_\_\_\_\_

9 \_\_\_\_\_

**FIELD NAME, NUMBER OR DESCRIPTION**

10 \_\_\_\_\_

11 \_\_\_\_\_

12 \_\_\_\_\_

13 \_\_\_\_\_

14 \_\_\_\_\_

15 \_\_\_\_\_

16 \_\_\_\_\_

17 \_\_\_\_\_

18 \_\_\_\_\_

**A** **CORN FIELD SELECTION** **A**

APPLY "RANDOM NUMBER" LABEL HERE

5. **[ENUMERATOR ACTION:**

*Circle the pair of numbers on the above label associated with the last numbered field in item 4.  
Select the field according to the number you circled on the label, and record the selected number.  
If only 1 field, enter 1.]* .....

**SELECTED FIELD  
NUMBER**

0021  
A0500

6. **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.]*

**OFFICE USE  
OY Field Substituted**

0022  
P22

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

<p>1. How many acres of corn did this operation plant in this field for the 2001 crop? .....</p>	<p style="border: 1px dashed black; padding: 2px;">ACRES</p> <p style="border: 1px dashed black; padding: 2px;">1035</p> <p style="border: 1px dashed black; padding: 2px;">B0100</p>	
<p>2. Were the acres in this field-- ..</p>	<p>1 owned by this operation?                  2 rented for CASH?                  3 SHARE rented?                  4 used RENT-FREE?</p>	<p style="border: 1px solid black; padding: 2px;">CODE</p> <p style="border: 1px solid black; padding: 2px;">1036</p> <p style="border: 1px solid black; padding: 2px;">B0200</p>
<p>3. [If field is CASH RENTED, ask--]                  What was the cash rent paid per acre for this 2001 corn crop? .....</p>		<p style="border: 1px solid black; padding: 2px;">DOLLARS &amp; CENTS PER ACRE</p> <p style="border: 1px solid black; padding: 2px;">1037</p> <p style="border: 1px solid black; padding: 2px;">B0300</p>
<p>4. [If field is SHARE RENTED, ask--.]                  What was the landlord's share of the crop from this field? .....</p>		<p style="border: 1px solid black; padding: 2px;">PERCENT</p> <p style="border: 1px solid black; padding: 2px;">1038</p> <p style="border: 1px solid black; padding: 2px;">B0400</p>
<p>5. What year did you start operating this field? .....</p>		<p style="border: 1px solid black; padding: 2px;">YEAR</p> <p style="border: 1px solid black; padding: 2px;">1039</p> <p style="border: 1px solid black; padding: 2px;">B0500</p>
<p>a. Do you EXPECT to be operating this field for the next 5 years (through the 2006 crop year)? ..... YES = 1</p>		<p style="border: 1px solid black; padding: 2px;">CODE</p> <p style="border: 1px solid black; padding: 2px;">1040</p> <p style="border: 1px solid black; padding: 2px;">B05A0</p>
<p>6. On what date was this field planted? .....</p>		<p style="border: 1px solid black; padding: 2px;">yy MM DD</p> <p style="border: 1px solid black; padding: 2px;">1041</p> <p style="border: 1px solid black; padding: 2px;">B0600</p>
<p>7. What was the average corn row width? .....</p>		<p style="border: 1px solid black; padding: 2px;">INCHES</p> <p style="border: 1px solid black; padding: 2px;">1042</p> <p style="border: 1px solid black; padding: 2px;">B0700</p>
<p>8. What was the seeding rate per acre the first time this field was seeded? .....</p>	<p style="border: 1px solid black; padding: 2px;">UNITS PER ACRE</p> <p style="border: 1px solid black; padding: 2px;">1043</p> <p style="border: 1px solid black; padding: 2px;">B0801</p>	<p style="border: 1px solid black; padding: 2px;">UNIT CODES for Seeding Rate 1=POUNDS 2=CWT 4=BUSHEL 25=KERNELS/SEEDS</p> <p style="border: 1px solid black; padding: 2px;">1044</p> <p style="border: 1px solid black; padding: 2px;">B0802</p>
<p>9. How many acres in this field had to be reseeded to corn?                  (Number of acres times the number of times reseeded.) .....</p>		<p style="border: 1px solid black; padding: 2px;">ACRES</p> <p style="border: 1px solid black; padding: 2px;">1045</p> <p style="border: 1px solid black; padding: 2px;">B0900</p>
<p>10. What was the predominant brand of seed planted on this field?                  [Show Brand/Company codes from Respondent Booklet.] .....</p>		<p style="border: 1px solid black; padding: 2px;">CODE</p> <p style="border: 1px solid black; padding: 2px;">1046</p> <p style="border: 1px solid black; padding: 2px;">B1000</p>
<p>11. What was the total cost per unit (including both your and the landlord's and contractor's share) of purchased seed for this field?                  (Include cost of seed treatment and any seed technology fee.) .....</p>	<p style="border: 1px solid black; padding: 2px;">DOLLARS &amp; CENTS PER UNIT</p> <p style="border: 1px solid black; padding: 2px;">1047</p> <p style="border: 1px solid black; padding: 2px;">B1101</p>	<p style="border: 1px solid black; padding: 2px;">UNIT CODE 1=POUNDS 2=CWT 4=BUSHEL 22=ACRE 23=APPROX 80,000 KERNEL BAG</p> <p style="border: 1px solid black; padding: 2px;">1048</p> <p style="border: 1px solid black; padding: 2px;">B1102</p>

**FIELD CHARACTERISTICS---SELECTED FIELD**

SEED TYPE - CORN	
1	Genetically-modified <b>herbicide resistant</b> seed variety (e.g. <i>LibertyLink</i> ; <i>Roundup Ready</i> )
2	Non-genetically-modified <b>herbicide resistant</b> seed variety (e.g. <i>IMI-corn</i> )
3	Genetically-modified <b>Bt</b> variety for insect resistance (e.g. <i>YieldGard</i> , <i>NatureGard</i> , <i>Knockout</i> )
4	Stacked gene variety (e.g. <i>both genetically-modified insect and herbicide resistance</i> , <i>YieldGard + LibertyLink</i> , <i>YieldGard + Roundup Ready</i> )
6	None of the above

12. **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 2001? .....
- b. in 2000? [Leave blank if corn was not on this field in 2000.] .....

CODE
1049
1050

13. [If 12a = 3 or 4 ask--]

**Was the Bt trait in this variety--** .....

- |   |            |
|---|------------|
| 1 | YieldGard  |
| 2 | NatureGard |
| 3 | Knockout   |
| 4 | Other      |

CODE
1051

14. [If 12a = 1,2, or 6 ask--]

**Which of the following reasons influenced you the most in deciding not to plant Bt corn in 2001 on this field--** .....

- |   |   |
|---|---|
| 1 | Did not expect to have enough corn borers<br>(or other Bt target pests) to justify the cost of Bt corn. |
| 2 | Concerned about finding a market for Bt corn.   |
| 3 | This field was used as refuge in 2001.  |
| 4 | Concerned about the environmental impact of Bt corn.  |
| 5 | None of the above.  |

CODE
1052

15. [If item 12a is NOT equal 6, ask--]

**Resistant seed varieties offer several benefits.**

**Did you choose the resistant seed variety used on this field primarily to--**

- |   |   |
|---|---|
| 1 | Increase yields through improved pest ( <i>weed or insect</i> ) control?    |
| 2 | Decrease pesticide input costs?   |
| 3 | Decrease machinery costs?   |
| 4 | Improve ability to use or ease of using reduced tillage or no-till systems? |
| 5 | Improve ability 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
1053

16. **What percentage of the field was used as refuge for the corn borer in order to comply with Bt corn insect resistant management guidelines?** .....

PERCENT
1054

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

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

CODE
1055

a. [If item 17 is code 1, ask--]

Was a specialized corn type planted in the field? (e.g. *Waxy*, *High Amylose*, *High-Oil*, *High-Lysine*, *Low Phytate*, *White Dent*, *Hard Endosperm/food grade*, *Nutritionally Dense*, *Organic*) ... **YES=1**

(1) [If item 17a = YES, ask--]

Was the type of specialty corn planted on this field high-oil corn? ... **YES=1**

CODE
1056
1057

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

CODE

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

1058

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

1 How many acres in the corn field were (will be)--	2 What yield per acre did you get (do you expect to get) for--		3 UNIT CODES 1=POUNDS 2=CWT 3=TONS 4=BUSHEL CODE
	ACRES	UNITS PER ACRE	CODE
a. harvested for grain? .....	1059 . ____	1060 . ____	1061
b. harvested for silage or green chop? .....	1062 . ____	1063 . ____	<b>TONS</b>
c. harvested for seed for planting? .....	1064 . ____	1065 . ____	1066
d. abandoned? .....	1067 . ____		
e. used for some other purpose? .....	1070 . ____		

CROP CODE LIST for item 20 PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay	196 Tobacco, flue cured	16 Peanuts	26 Soybeans
11 Hay, all other	193 Tobacco, burley	17 Dry Peas	28 Sugarbeets
190 Barley	281 Cotton, Upland	20 Potatoes	30 Sunflowers
3 Dry Beans	282 Cotton, Pima	21 Rice	142 Vegetables
85 Canola	302 CRP	22 Rye	163 Wheat, durum
310 Clover	311 Grasses other than clover	98 Safflower	164 Wheat, other spring
6 Corn for grain	94 Mustard	25 Sorghum for grain	165 Wheat, winter
5 Corn for silage	15 Oats	24 Sorghum for silage	318 <b>No crop planted during this period</b>
38 Corn for seed	31 Sweetpotatoes		

20. Next I need to know what crops were previously PLANTED on this field, including cover crops.

1 What crop was PLANTED on this field in--	2 Was this crop irrigated?		3 Was this crop no-tilled? 1/
	CROP NAME	CROP CODE	YES = 1
a. FALL of 2000? .....		1073	1074
b. SPRING/SUMMER of 2000? ..		1076	1077
c. FALL of 1999? .....		1079	1080
d. SPRING/SUMMER of 1999? ..		1082	1083
e. FALL of 1998? .....		1085	1086
f. SPRING/SUMMER of 1998? ..		1088	1089

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

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

1	2	3
In what year were the (column 1) established in this field?	[If (column 1) were established before operator began operating this field, enter code 1.]	In 2001, did (or will) the Federal or State government pay an annual rental payment for keeping this conservation practice in place? YES = 1
CODE	YEAR	
21. In 2001, did your land-use practices for this field include--		
a. terraces? . . . . . YES = 1	1091 _____	1092 _____
b. temporary or permanent levees? . YES = 1	1095 _____	1096 _____
c. grassed waterways? . . . . . YES = 1	1099 _____	1100 _____
d. filter strips or riparian buffers on or adjoining the field? . . . . . YES = 1	1103 _____	1104 _____
e. contour farming? . . . . . YES = 1	1107	1101
f. strip cropping? . . . . . YES = 1	1108	1102
g. underground outlets such as tile drainage? . . . . . YES = 1	1109	1103
h. other drainage channels or diversions? . . . . . YES = 1	1110	1104

22. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"? . . . . . YES = 1

CODE  
1111

23. Have you been notified by NRCS that this field contains a wetland? . . . . . YES = 1

1112

24. In 2001, 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 on or adjoining this field. Include assistance from any source whether paid for or free.)* . . . . . YES = 1

1113

25. In 2001, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field ?  
*[Be sure to include payments for establishing grassed waterways and filter strips or riparian buffers on or adjoining the field, but exclude rental payments reported in item 21c and item 21d above.]*  
*(Include payments received from any source by either the owner or operator. Exclude rental payments for keeping the land in these practices.)* . . . . . YES = 1

1114

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

26. <b>During 2001, did any written plan of the following types cover this field and, if so, in what year was the plan implemented?</b> <i>(A "written plan" is a plan prepared in accordance with Federal, State or district standards.)</i>	<b>CODE</b>	<b>YEAR IMPLEMENTED</b>
a. Soil conservation plan specifying practices to reduce soil erosion? <b>YES=1</b>	1115	1116 ____ _
b. Nutrient management plan specifying practices for applying commercial fertilizer? ..... <b>YES=1</b>	1117	1118 _ _ _ _
c. Nutrient management plan specifying practices for land application of manure? ..... <b>YES=1</b>	1119	1120 ____ _
d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant diseases? .. <b>YES=1</b>	1121	1122 ____ _
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? ..... <b>YES=1</b>	1123	1124 ____ _

**27. Was the corn crop on this field covered by Crop Insurance in 2001?**

**CODE**

**YES** - *[Enter code 1 and continue.]* ..... **YES=1** 1125

**NO** - *[Go to Section C.]*

If item 27 = YES, which coverages did you obtain?  
*[Enter code for all that apply.]*

a. **Basic catastrophic insurance** (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the price. . . **YES=1** 1126

b. **Buy-up on Basic Federal CAT** for higher levels of yield and price protection *(such as 65% of yield and 100% price).* ..... **YES=1** 1127

c. **Revenue Insurance** include Income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance (RA). ..... **YES=1** 1128

d. **Other Federal Crop insurance** *(Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.)* ..... **YES=1** 1129

e. **Other Private Crop insurance** *(Hail, wind, freeze, etc.)* ..... **YES=1** 1130



**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

1. Were commercial FERTILIZERS applied to this field for the 2001 corn crop? ..... YES=1

CODE	EDIT TABLE
1131	0201

[If COMMERCIAL fertilizer applied, continue, else go to item 5.]

2. How many commercial fertilizer applications were made to this field for the 2001 crop (include applications made by airplanes and commercial applicators)? .....

NUMBER
1132

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

CHECK LIST		
INCLUDE	EXCLUDE	
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients	
<input type="checkbox"/> Fertilizer applied in the fall of 2000 and those applied earlier if this field was fallow in 2000	<input type="checkbox"/> Unprocessed manure	
<input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Fertilizer applied to previous crops in this field	

	T-TYPE	TABLE
	2	001
LINE 99	OFFICE USE LINES IN TABLE	0213

LINE	2 → → → MATERIALS USED			3 What quantity was applied per acre? <small>[Leave this column blank if actual nutrients were reported.]</small>	4 [Enter material code.]	5 When was this applied?	6 How was this applied?	7 How many acres were treated in this application?  ACRES
	N Nitrogen	P <sub>2</sub> O <sub>5</sub> Phosphate	K <sub>2</sub> O Potash					
01	0205	0206	0207	0208	0209	0210	0211	0212 •__
02	0205	0206	0207	0208	0209	0210	0211	0212 •__
03	0205	0206	0207	0208	0209	0210	0211	0212 •__
04	0205	0206	0207	0208	0209	0210	0211	0212 •__
05	0205	0206	0207	0208	0209	0210	0211	0212 •__
06	0205	0206	0207	0208	0209	0210	0211	0212 •__
07	0205	0206	0207	0208	0209	0210	0211	0212 •__
08	0205	0206	0207	0208	0209	0210	0211	0212 •__

T-TYPE 0	TABLE 000	LINE 00
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**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

T-TYPE <b>0</b>	TABLE <b>000</b>	LINE <b>00</b>
--------------------	---------------------	-------------------

4. **Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 2001 corn crop?**

*(Include landlord and contractor costs.  
Exclude custom application of lime, gypsum & purchased manure.)  
[If material and application costs can't be separated,  
exclude them here and record the total in item 5.]*

DOLLARS & CENTS  
PER ACRE

OR

TOTAL DOLLARS

1133	• ____
------	--------

1134
------

5. **What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 2001 corn crop?**

*(Include landlord and contractor costs.  
Exclude lime, gypsum and purchased manure.  
If custom applied, include the cost of materials ONLY,  
unless materials and application costs cannot be separated.  
Include materials applied to this field before planting and  
during 2000 fallow period.)*

DOLLARS & CENTS  
PER ACRE

OR

TOTAL DOLLARS

1135	• ____
------	--------

1136
------

6. **Was most of the commercial nitrogen fertilizer applied to this field purchased under contract or otherwise pre-purchased at a pre-determined price set prior to January 1, 2001?**

YES = 1

CODE

1137
------

[If item 6 = YES, go to item 8; else continue.]

**Most commercial nitrogen prices increased rapidly in the latter part of 2000 and 2001. In response to these higher nitrogen fertilizer prices, did you alter the amount or management of commercial nitrogen fertilizer on the field compared to what you would have done otherwise in 2001?**

- YES - [Continue.]       NO - [Go to item 8.]

7. **In response to the higher nitrogen fertilizer prices, did you--**

a. reduce the application rate of commercial nitrogen fertilizer on this field compared to what would have otherwise been applied in 2001?

YES=1

CODE

1138
------

[If item 7a = YES, ask--]

(1) By what percent did you reduce the amount of commercial nitrogen fertilizer for 2001?

PERCENT

1139
------

CODE

b. increase the use of manure or other organic sources of nitrogen on this field in 2001?

YES=1

1140
------

c. change the type of nitrogen fertilizer products used on this field in 2001?  
*(e.g., less anhydrous ammonia and more urea)*

YES=1

1141
------

d. manage nitrogen fertilizer on this field more carefully in 2001 than you would have otherwise?

YES=1

1142
------

[If item 7d = YES, ask--]

Were any of the following practices used on this field in 2001 that would not have been used otherwise--

CODE

(1) soil/tissue testing?

YES=1

1143
------

(2) split applications of nitrogen fertilizer?

YES=1

1144
------

(3) variable rate fertilizer applications?

YES=1

1145
------

(4) incorporation of broadcast/surface applied nitrogen fertilizer?

YES=1

1146
------

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

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

8. **What was your yield goal (or expected yield) for this field?** .....

<b>UNITS PER ACRE</b>	<b>CODE</b>
1147 . ____	1148

9. **Was a soil test for phosphorus performed on this corn field in 2000 or 2001 for the 2001 crop?** ..... YES = 1

<b>CODE</b>
1149

a. [If phosphorus test done, ask--]

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

<b>POUNDS PER ACRE</b>
1150

10. **Was a soil test for nitrogen performed on this corn field in 2000 or 2001 for the 2001 crop?** ..... YES = 1

<b>CODE</b>
1151

a. [If nitrogen test done, ask--]

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

<b>POUNDS PER ACRE</b>
1152

11. Was a **plant tissue test** performed on this field in 2000 or 2001 for the 2001 corn crop? ..... YES = 1

<b>CODE</b>
1153

12. [If soil or plant tissue test done, ask--; else go to item 13.]

**How much was spent for these soil and plant tissue tests on this field?** [Include landlord and contractor costs.] .....

<b>DOLLARS &amp; CENTS PER ACRE</b>
1154 . ____

<b>OR TOTAL DOLLARS</b>
1155

(1) [Note: If tests were done at no cost, explain: \_\_\_\_\_]

<b>OFFICE USE</b>
0219

13. **[Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 14 and 15. If NO nitrogen applied, skip to item 16.]**

14. **Was the amount of nitrogen you decided to apply to this field based on--** [Enter code for all that apply.]

a. Results of a soil or plant tissue test? ..... YES = 1

<b>CODE</b>
1156

b. Crop consultant recommendation? ..... YES = 1

1157
------

c. Fertilizer dealer recommendation? ..... YES = 1

1158
------

d. Extension Service recommendation? ..... YES = 1

1159
------

e. Cost of nitrogen and/or expected commodity price? ..... YES = 1

1160
------

f. Routine practice (operator's own determination based on past experience, yield goal, etc.)? ..... YES = 1

1161
------

15. **Did you use any product to slow the breakdown of nitrogen on this field?** (For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain) ..... YES = 1

1162
------

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

16. Was lime ever applied to this field? ..... YES = 1 CODE  
1163

a. [If no lime applied, go to item 17--else continue.]

On average, how many years are there between applications of **lime** to this field? ..... YEARS  
1164

b. How many tons of **lime** were applied per acre the last time it was applied to this field? ..... TONS PER ACRE  
1165

c. [If rented, 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  
1166

17. Was sulfur applied to this field for the 2001 crop? ..... YES = 1 CODE  
1167

a. [If sulfur applied, ask--]

How many pounds of sulfur were applied per acre? ..... POUNDS PER ACRE  
1168

18. Was gypsum applied to this field for the 2001 crop? ..... YES = 1 CODE  
1169

19. Was manure applied to this field for the 2001 corn crop?  
(Exclude commercially prepared manure.)

YES - [Enter code 1 and continue.] ..... CODE  
1170

NO - [Go to Section D.]

a. How many acres was manure applied to? ..... ACRES  
1171

b. What was the total amount of manure applied to this field? ... 1 - TONS  
2 - GALLONS ..... CODE  
1172 AND 1173 ..... TOTAL UNITS  
1173 OR 1174 ..... UNITS PER ACRE  
1174

c. What is the hauling distance between the manure storage and the manured field? ..... MILES  
1175

d. What was the capacity of the manure spreader used to apply manure to this field? ... 1 - TONS  
2 - GALLONS ..... CODE  
1176 AND 1177 ..... TOTAL UNITS  
1177

e. What percent of the total manure was applied--

(1) in the fall before planting? ..... + PERCENT  
1178

(2) in the spring before planting? ..... + 1179

(3) after planting? ..... + 1180

**100%**

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD**

19. *Continued--*

f. Was the manure--

- |   |  |
|---|--|
| 1 | Dry Broadcast <i>without</i> incorporation?    |
| 2 | Dry Broadcast <i>with</i> incorporation?       |
| 3 | Liquid Broadcast <i>without</i> incorporation? |
| 4 | Liquid Broadcast <i>with</i> incorporation?    |
| 5 | Injected/knifed in?                            |

CODE

1181

g. Was the major source of the manure from--

- |   |  |
|---|--|
| 1 | Beef cattle?   |
| 2 | Dairy cattle?  |
| 3 | Hogs?  |
| 4 | Sheep?   |
| 5 | Poultry?   |
| 6 | Equine?  |
| 7 | Biosolids ( <i>municipal sludge, food waste, etc.</i> )? |
| 8 | Other ( <i>Specify _____</i> )?                          |

CODE

1182

h. Was the manure--

- |   |   |
|---|---|
| 1 | Produced on this operation?             |
| 2 | Purchased?                              |
| 3 | Obtained at no cost off this operation? |

CODE

1183

20. **Were the manure APPLICATION RATES to this field influenced by State or local restrictions?** .....

CODE

1184

YES = 1

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

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

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

1185

(2) Phosphorus requirement of the crop? ..... YES = 1

1186

# D PESTICIDE APPLICATIONS---SELECTED FIELD

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 2001 corn crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the corn field for the 2001 crop? ..... YES = 1

CODE	EDIT TABLE
1187	0301

[Probe for applications made in the fall of 2000 (and those made earlier if this field was fallow).]

[If no pesticides applied, go to Section E.]

**Include** defoliant, fungicides, herbicides, insecticides and pesticides.  
**Include** biological and botanical pesticides.

**Exclude** fertilizers reported earlier and seed treatments.

	T-TYPE	TABLE
	3	001
LINE	OFFICE USE	
99	LINES IN TABLE	0319

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

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

LINE	Pesticide Type (Herbicide, Insecticide Fungicide, etc.)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [Ask only if EPA No. cannot be reported.]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**D PESTICIDE APPLICATIONS---SELECTED FIELD**

APPLICATION CODES for column 9	
1 Broadcast, ground without incorporation	6 Chisel/injected or knifed in
2 Broadcast, ground with incorporation	7 Banded/sidedressed in or over row
3 Broadcast, by air ( <i>Aerial application</i> )	8 Foliar or directed spray
4 In Seed furrow	9 Spot treatments
5 In Irrigation water	

**[ENUMERATOR NOTE:**  
*Use these columns only if TOTAL COST (item ④ on next page) cannot be provided.]*

**[If column 9=9, then columns 6 & 10 must be blank.]**

LINE	9	10	11	12	13	14	OPTIONAL ITEM ④	
	How was this product applied? <i>[Enter code from above.]</i>	How many acres in this field were treated with this product? <b>ACRES</b>	What was the number of times applied? <b>NUMBER</b>	What was the PRIMARY target pest for this application? <i>[Show Target Pest codes from Respondent Booklet.]</i>	Prior to this application, was this years pest problem-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	Were these applications made by-- 1 Operator, Partner or Family member? 2 Custom applicator? 3 Employee / Other?	What was the cost per unit of the product?	
							DOLLARS & CENTS PER UNIT	UNIT CODE 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
01	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
02	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
03	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
04	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
05	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
06	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
07	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
08	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
09	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
10	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
11	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
12	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
13	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318
14	0311	0312 .__	0313	0314	0315	0316	0317 .__	0318

T-TYPE	TABLE	LINE
0	000	00





---

**NOTES and CALCULATIONS:**

**E PEST MANAGEMENT PRACTICES--SELECTED FIELD E**

Now I have some questions about your pest management decisions and practices used on this field for the 2001 corn crop.  
By pests, we mean WEEDS, INSECTS and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

CODE

1188

- Was this field scouted for pests using a systematic method? ..... YES = 1
- [If item 1 = YES, ask--; else go to item 7.]

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

1		②
Was this corn field scouted for--		[If YES, ask--] Who did the majority of the scouting for [column 1]--
	YES=1	CODE
a. weeds? .....	1189	1190
b. insects--		
(1) Corn Borer? .....	1191	1192
(2) Corn Rootworm? .....	1193	1194
(3) Other Insects? .....	1195	1196
c. diseases? .....	1197	

- [If scouted by consultant or commercial scout, ask--]

How much did you pay for the scouting services for this field?  
[Include landlord and contractor cost.] .....

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1199		1200

- [Note: If scouting performed at no cost, explain: .....

OFFICE USE

0333

- What percent of this cost was for insect scouting? .....

PERCENT

1201

- [If scouted by operator, partner, family member, employee, ask--]

How many hours did [operator, partner, family member, employee] spend scouting this field for pests? .....

HOURS

1202

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

CODE

1203

- Did you use scouting data and compare it to university or extension guidelines for infestation thresholds to determine when to take measures to control pests? ..... YES = 1

CODE

1204

**E PEST MANAGEMENT PRACTICES--SELECTED FIELD**

7. [Enumerator Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?]

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

8. After planting, did you apply herbicides to this corn field BEFORE weeds emerged? ..... YES = 1

CODE  
1205

[If item 8 = YES, ask--]

a. Did you select and apply herbicides BEFORE weeds emerged on this corn field based primarily on--

- |           |  |
|-----------|--|
| 1         | routine expectations of what <b>weeds</b> are usually present each spring? |
| <b>OR</b> |  |
| 2         | systematic weed scouting from the previous year?                           |

CODE  
1206

9. Did you apply herbicides to this corn field AFTER weeds emerged? ..... YES = 1

CODE  
1207

[If item 9 = YES, ask--]

a. Did you select and apply herbicides AFTER weeds emerged on the corn field based primarily on--

- |           |  |
|-----------|--|
| 1         | routine treatments or expectations of what <b>weeds</b> are usually present? |
| <b>OR</b> |  |
| 2         | systematic crop scouting about weeds or weed size?                           |

CODE  
1208

10. [Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-2000), in Section D, item 1 column 2?]

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

11. Did you select and apply insecticides to this corn field based primarily on--

- |           |  |
|-----------|--|
| 1         | routine treatments or expectations of what <b>insects</b> are usually present? |
| <b>OR</b> |  |
| 2         | systematic crop scouting for insect infestation?                               |

CODE  
1209

**OTHER PEST MANAGEMENT PRACTICES**

*By pests, we mean WEEDS, INSECTS and DISEASES*

12. Was protection of beneficial organisms a factor in your pest control decisions for this field? ..... YES = 1

CODE  
1210

13. Did you apply or release any beneficial organisms to control pests in this field? YES = 1

1211

14. Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field? [Exclude chemigation.] ..... YES = 1

1212

15. Did you chose planting locations to avoid cross infestation of insects or disease? ..... YES = 1

1213

16. Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field? ..... YES = 1

1214

17. Did you clean equipment and implements after completing field work to reduce the spread of pests from this field? ..... YES = 1

1215

PEST MANAGEMENT PRACTICES--SELECTED FIELD

18. Did you cultivate this field for weed control during the growing season? . . . . . YES = 1 CODE  
1216  
 a. [If item 18 = YES, ask--]

How many times did you cultivate this field for weed control during the growing season? . . . . . NUMBER  
1217

19. Did you consider pest resistance when selecting which seed variety to plant in this field? . . . . . YES = 1 CODE  
1218

20. Did you have the seed used in this field treated for insect or disease control after you purchased the seed? . . . . . YES = 1 1219

21. Did you adjust planting or harvesting dates to control pests? . . . . . YES = 1 1220

22. Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field? . . . . . YES = 1 1221

23. Did you alternate pesticides (use pesticides with different mechanisms of action) to keep pests from becoming resistant to pesticides in this field? . . . . . YES = 1 1222

24. Did you adjust row spacing or plant density to control pests in this field? . . . . . YES = 1 1223

25. Did you remove or plow down crop residues to control pests? . . . . . YES = 1 1224

26. Did you rotate crops on this field during the past 3 years to control pests? . . . . . YES = 1 1225

27. Did you use biological pest controls on this field?  
 [Biological pest controls include beneficial insects, floral lures, attractants or repellants applied to the field, pheromones and pheromone traps.] . . . . . YES = 1 1226

a. [If item 27 = YES, ask--]  
 What were the TOTAL materials and application costs for all biological pest controls for this field?  
 [include landlord's and contractor's share.] . . . . . DOLLARS & CENTS  
PER ACRE OR TOTAL DOLLARS  
1227 .\_\_ 1228

28. Did you use topically applied biological pesticides such as Bt, insect growth regulators, neem or other natural products to control pests? . . . . . YES = 1 CODE  
1229

29. Did you grow a trap crop to help control pests? . . . . . YES = 1 1230

30. Did you use weather monitoring to predict the need for pesticide application? . . . . . YES = 1 1231

31. Did you maintain ground covers, mulches or physical barriers to reduce pest problems? . . . . . YES = 1 1232

32. Did you use field mapping of previous weed problems to assist you in making weed management decisions? . . . . . YES = 1 1233



# FIELD OPERATIONS --- SELECTED FIELD

1. Now I need to list all tractors and self-propelled harvesters used to produce corn on this selected field.

CHECK LIST	
Include	Exclude
<input type="checkbox"/> Tractors owned, rented, leased or borrowed	<input type="checkbox"/> Tractors & self propelled harvesters provided by custom operators
<input type="checkbox"/> Self propelled harvesters & combines owned, rented, leased or borrowed	<input type="checkbox"/> Harvesters & combines that are not self propelled

1	2 What tractors and self-propelled harvesters were used on this field?  MAKE and MODEL	3 What was the model year? <i>(Example: 2000)</i>  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? 7 self-propelled harvester?  CODE	[If TRACTOR, ask--]	
				5 What is its PTO horsepower?  PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline? 3 LP gas 9 other?  CODE
1		0120 __ __ __ __	0121	0122	0123
2		0124 __ __ __ __	0125	0126	0127
3		0128 __ __ __ __	0129	0130	0131
4		0132 __ __ __ __	0133	0134	0135
5		0136 __ __ __ __	0137	0138	0139
6		0140 __ __ __ __	0141	0142	0143
7		0144 __ __ __ __	0145	0146	0147
8		0148 __ __ __ __	0149	0150	0151
9		0152 __ __ __ __	0153	0154	0155
10		0156 __ __ __ __	0157	0158	0159
11		0160 __ __ __ __	0161	0162	0163
12		0164 __ __ __ __	0165	0166	0167
13		0168 __ __ __ __	0169	0170	0171
14		0172 __ __ __ __	0173	0174	0175
15		0176 __ __ __ __	0177	0178	0179
16		0180 __ __ __ __	0181	0182	0183
17		0184 __ __ __ __	0185	0186	0187
18		0188 __ __ __ __	0189	0190	0191
19		0192 __ __ __ __	0193	0194	0195
20		0196 __ __ __ __	0197	0198	0199

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

2. Including custom operations, I need to list field work performed by machines on this field for the 2001 corn crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 2000, list operations starting with fall 1999.)
- ▶ 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? --[Go to Column 11.]

**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

Planting and chemical operations for cover/nurse crop

**Exclude**

Lime & Gypsum applications



2 S E Q U E N C E  No.	3 What operation or equipment was used?	4 <small>[Record machine code from Respondent Booklet.]</small>  CODE	5 Who was the machine operator-  <small>[Enter code from above.]</small>  CODE	[If CUSTOM (column 5 = code 6), skip columns 6-10.]					11  In what month was this operation done?  MM YY
				6 What was the size or swath of the [machine] used?	7 <small>[Record size code.]</small> 1 Feet 2 Row 3 Moldboard <small>(bottoms)</small> Hauling 4 Pounds 5 Bushels 6 Tons  CODE	8 Which tractor/or self-propelled harvester was used?  <small>[Record line number from item 1.]</small> 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled	9 How many acres were covered? 1/  ACRES	10 How many acres were covered per hour?  ACRES PER HOUR	
0351		0352	0353	0354	0355	0356	0357	0358	0359
0361		0362	0363	0364	0365	0366	0367	0368	0369
0371		0372	0373	0374	0375	0376	0377	0378	0379
0381		0382	0383	0384	0385	0386	0387	0388	0389
0391		0392	0393	0394	0395	0396	0397	0398	0399
0401		0402	0403	0404	0405	0406	0407	0408	0409
0411		0412	0413	0414	0415	0416	0417	0418	0419
0421		0422	0423	0424	0425	0426	0427	0428	0429
0431		0432	0433	0434	0435	0436	0437	0438	0439
0441		0442	0443	0444	0445	0446	0447	0448	0449
0451		0452	0453	0454	0455	0456	0457	0458	0459
0461		0462	0463	0464	0465	0466	0467	0468	0469
0471		0472	0473	0474	0475	0476	0477	0478	0479
0481		0482	0483	0484	0485	0486	0487	0488	0489
0491		0492	0493	0494	0495	0496	0497	0498	0499
0501		0502	0503	0504	0505	0506	0507	0508	0509
0511		0512	0513	0514	0515	0516	0517	0518	0519
0521		0522	0523	0524	0525	0526	0527	0528	0529

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade and hauling operations, enter total HOURS, and leave column 10 blank.

**OFFICE USE**

0032

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

3. I need some additional information about the labor used on this field.  
Please list all workers, paid and unpaid, that worked on this field to produce the 2001 corn crop.

- Include** ▶ workers who worked on the field during the Fall of 2000 and earlier if field was left fallow during 2000.
- Exclude** ▶ contract and custom workers.

**[ENUMERATOR INSTRUCTIONS:** You may list individuals or groups of workers.  
If workers are grouped, indicate type and number.]

1 <b>LIST WORKERS</b>  [Include machine and non-machine workers. Exclude contract and custom workers.]	2 [Enter number of workers.]  NUMBER	3 <b>Was (worker)--</b> 1 PAID 2 UNPAID  CODE	[If PAID, ask--]		[If PAID or UNPAID, ask--]
			4 <b>Was (worker)--</b> 1 FULL TIME 2 PART TIME 3 SEASONAL  CODE	5 <b>What was the average hourly cash wage rate paid (per person) for ALL of (worker's) work on this field?</b>  DOLLARS & CENTS PER HOUR	6 <b>Other than the hours just reported operating machines, what were the total hours (worker) worked on activities for this field?</b>  (Include time spent loading materials into equipment, scouting, irrigating, burning, drying, repairing machinery, manual weeding, thinning, rock picking, and management activities.)  TOTAL HOURS
<input type="checkbox"/> You (the operator)					0754
<input type="checkbox"/> Partners	0755				0759
<input type="checkbox"/> Spouse		0761	0762	0763	0764
	0765	0766	0767	0768	0769
	0770	0771	0772	0773	0774
	0775	0776	0777	0778	0779
	0780	0781	0782	0783	0784
	0785	0786	0787	0788	0789
	0790	0791	0792	0793	0794
	0795	0796	0797	0798	0799
	0800	0801	0802	0803	0804
	0805	0806	0807	0808	0809
	0810	0811	0812	0813	0814
	0815	0816	0817	0818	0819

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

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

What was the average cost per acre for this contract labor?  
(Include landlord and contractor costs.) .....

CODE  
0820

DOLLARS & CENTS PER ACRE  
0821





		CODE
8.	<b>Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 2001 growing season? . . . . .</b> YES = 1	1259
	a. [If item 8 = YES, ask--]	
	Was a custom service/consultant hired for this activity? . . . . . YES = 1	1260
9.	<b>Was variable rate technology (VRT) used for--</b>	
	a. fertilization or liming? . . . . . YES = 1	1261
	(1) [If item 9a = YES, ask--]	
	Was a custom service/consultant hired for this activity? . . . . . YES = 1	1262
	b. seeding? . . . . . YES = 1	1263
	(1) [If item 9b = YES, ask--]	
	Was a custom service/consultant hired for this activity? . . . . . YES = 1	1264
	c. pesticide applications? . . . . . YES = 1	1265
	(1) [If item 9c = YES, ask--]	
	Was a custom service/consultant hired for this activity? . . . . . YES = 1	1266
10.	<b>Was a guidance or parallel swathing system (connected to GPS) used with any machine operation on this field (e.g. light bar)? . . . . .</b> YES = 1	1267

**G IRRIGATION --- SELECTED FIELD**

ACRES

1. How many acres in this field were irrigated for the 2001 corn crop?  
 [If none, go to Section H.] ..... 1268 . \_\_\_\_

2. Now, I have some questions about irrigation systems and water used on this field for the 2001 corn crop.

↓	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) were used to irrigate this field? [Show <b>System Type Codes</b> in the Respondent Booklet. Enter <b>System Type Code</b> for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1269	1283
b. What was the <b>total</b> 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	1270	1284
	OR TOTAL ACRE-FEET	1271	1285
[If operator <b>cannot provide item 2b</b> , ask (1) & (2)--] (1) What is the <b>total</b> number of <b>hours</b> this system was used to apply water to this field during the corn growing season? . . . . .	TOTAL HOURS	1272	1286
(2) How many gallons per minute were applied? . . . . .	GALLONS PER MINUTE	1273	1287
c. What percent of the water used to irrigate this field through this system came from surface water sources? . . . . .	PERCENT	1274	1288
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	1275	1289
e. Was the pump type-- [Enter code for most common pump type.] (If more than one pump in the system, enter type for pump closest to water source.)	CODE	1276	1290
	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	1277	1291
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask--] What was the system operating pressure? . . . . .	POUNDS PER SQUARE INCH	1278	1292
h. What was the motor type?	CODE	1279	1293
	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER		
i. What was the average motor size? . . . . .	HORSE-POWER	1280	1294
j. [If NO PUMP was used, ask-- (item e = code 99); What was the average flow rate? . . . . .	GALLONS PER MINUTE	1281	1295
k. How many <b>other</b> acres on this operation were irrigated using this field's irrigation system during the 2001 growing season? [Exclude this field.] . . . . .	ACRES	1282	1296

**G** **IRRIGATION** --- **SELECTED FIELD**

3. **Was any water purchased to irrigate this field?**

*(Include landlord's share and purchases from all sources.)*

**YES** - [Enter code 1 and continue.]       **NO** - [Go to item 4.] .....

**CODE**

1297

**PERCENT**

1298

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 2001 growing season?  
*(Include landlord and contractor costs and ditch maintenance costs.)* . . .

**DOLLARS & CENTS PER ACRE**

1299      • \_\_ \_

**OR TOTAL DOLLARS**

1300

4. [If SIPHON TUBES were used (line a of item 2 = 10 or 11), ask--]

**What would be the total cost to replace all the siphon tubes used on this field? . . . . .**

**TOTAL DOLLARS**

1301

5. [If POLY PIPE system was used (line a of item 2 = 14), ask--]

**What was the total amount spent for poly pipe used on this field during the 2001 growing season? . . . . .**

**TOTAL DOLLARS**

1302

6. [If GATED PIPE system was used (line a of item 2 = 15 or 16), ask--]

a. What was the average diameter of gated pipe used to irrigate this field? .....

**INCHES**

1303

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

**FEET**

1304

7. **Were wells used to supply irrigation water for this field?**

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

**CODE**

1305

**NUMBER**

1306

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

**INCHES**

1307

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

**FEET**

1308

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. [If same well(s) used to irrigate **other** fields, ask--]

**How many other acres on this operation were irrigated using the same well(s) during the 2001 growing season? . . . . .**

**ACRES**

1309

8. Other than pipe that is part of the system, was any additional mainline or lateral pipe used to carry water from the source to this field?  
(Include underground pipe.)

- YES - [Continue.]       NO - [Go to item 9.]

a. What was the most common type of additional pipe used? .....

PIPE TYPE CODES	
1	ALUMINUM - (NON-HI-PRESSURE)
2	ALUMINUM - (HI-PRESSURE)
3	STEEL
4	PLASTIC
5	OTHER (SPECIFY: _____)

CODE

1310

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

INCHES

1311

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

FEET

1312

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

RUN-OFF CODES	
1	retained at the end of the field?
2	re-used 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

1313

# DRYING

H

H

[ENUMERATOR NOTE: If corn was harvested for grain or seed section B, item 19a continue; else go to Section I.]

1. What was (do you expect to be) the moisture content of the corn from this field at harvest? ..... PERCENT  
1314

Now I have some questions about drying corn from this field.

2. Was most of this OPERATION'S (share of) corn from this field-- (Exclude landlord's and contractor's share.)

1 DRIED USING OPERATION'S FACILITIES 2 DRIED USING LANDLORD'S or CONTRACTOR'S FACILITIES 3 CUSTOM DRIED (Include drying on another operation.) 4 NOT DRIED	CODE 1315
---	--------------

a. [If CUSTOM DRIED, item 2 = code 3, ask--] How much did this operation pay for custom drying? ..... CENTS PER BUSHEL  
1316 OR TOTAL DOLLARS  
1317

3. [If field was share rented, ask--] Was most of this LANDLORD'S or CONTRACTOR'S (share of) corn from this field--

1 DRIED USING OPERATION'S FACILITIES 2 DRIED USING LANDLORD'S or CONTRACTOR'S FACILITIES 3 CUSTOM DRIED (Include drying on another operation.) 4 NOT DRIED	CODE 1318
---	--------------

a. [If CUSTOM DRIED, item 3 = code 3, ask--] How much did this landlord or contractor pay for custom drying? .. CENTS PER BUSHEL  
1319 OR TOTAL DOLLARS  
1320

4. [ENUMERATOR INSTRUCTION: If ANY corn was DRIED using operator's or landlord's or contractor's facilities (items 2 and 3 = code 1 or 2) → continue; else, go to Section I.]

Now, I need a description of the facilities and methods used for drying the corn from the selected field. (Include only those facilities used to remove moisture from corn by drying or cooling.)

	1	2	3	4	5
	1 BINS	Was the main drying method--	How many [column 1] were used to dry corn from the entire 2001 crop?	What was the TOTAL holding capacity of these dryers?	What was the main power source used?
	2 CONTINUOUS FLOW DRYERS	1 HIGH TEMP			1 DIESEL
	3 BATCH DRYERS	2 LOW TEMP			2 GASOLINE
	CODE	CODE	NUMBER	BUSHELS	3 LP GAS
	1321	1322	1323	1324	4 NATURAL GAS
					5 ELECTRICITY
					9 OTHER
					CODE
5. What was the main type of drying facility that used heat to dry the corn from this field? → → → → → (If more than one type was used, report the type used to dry the most corn.)					
6. What was the main type of cooling or aeration facility used to dry the corn from this field? → → → → → → → → → → (If more than one type was used, report the type used to dry the most corn. Exclude facilities previously reported in item 5.)					

7. Of the total bushels of ALL crops dried with all of these facilities, what percentage were bushels of corn? ..... PERCENT  
1331

# LANDLORD/CONTRACTOR COSTS

1. Did a landlord or contractor contribute any cost for the corn produced on this field in 2001? *[Show Landlord/Contractor Cost items in the Respondent Booklet.]*

CODE

0862

YES - *[Enter 1 and continue.]*

NO - *[Enter 3 and go to Conclusion.]* .....

1	2	
<p><b>Which items?</b> <i>[Check ✓ all that are YES.]</i></p>	<p><i>[For each item checked in column 1, ask--]</i>  <b>How much did your landlord and/or contractor spend for [column 1 item] for this field?</b>                      PERCENT      OR      TOTAL DOLLARS</p>	
<b>Seed Costs</b>		
<input type="checkbox"/> a. Purchased seed .....	0863	0884
<b>Fertilizer Costs (Exclude Lime and Gypsum.)</b>		
<input type="checkbox"/> b. Fertilizer custom applications .....	0864	0885
<input type="checkbox"/> c. Fertilizer materials .....	0865	0886
<b>Chemicals/Pesticides Costs</b>		
<input type="checkbox"/> d. Chemical/pesticides custom applications .....	0866	0887
<input type="checkbox"/> e. Chemical/pesticides materials .....	0867	0888
<b>Technical Services</b>		
<input type="checkbox"/> f. Soil tests or plant tissue tests .....	0868	0889
<input type="checkbox"/> g. Scouting services .....	0869	0890
<input type="checkbox"/> h. Biological pest controls and their application .....	0870	0891
<b>Custom Field Operations and Services</b>		
<input type="checkbox"/> i. Custom land preparation, shaping, and/or leveling .....	0871	0892
<input type="checkbox"/> j. Custom cultivating .....	0872	0893
<input type="checkbox"/> k. Custom planting and/or reseeded .....	0873	0894
<input type="checkbox"/> l. Custom harvesting .....	0874	0895
<input type="checkbox"/> m. Custom hauling .....	0875	0896
<input type="checkbox"/> n. Custom drying .....	0876	0897
<input type="checkbox"/> o. Custom harvesting and hauling .....	0877	0898
<input type="checkbox"/> p. Contract and other paid labor .....	0878	0899
<input type="checkbox"/> q. Other custom and/or technical services .....	0879	0900
<b>Drying Costs</b>		
<input type="checkbox"/> r. Fuel and/or electricity for drying .....	0880	0901
<input type="checkbox"/> s. Repairs of the facilities used for drying .....	0881	0902
<b>Irrigation and Water Management Costs</b>		
<input type="checkbox"/> t. Purchased irrigation water .....	0882	0903
<input type="checkbox"/> u. Fuel, lubrication and electricity for irrigation .....	0883	0904

# CONCLUSION

**LOCATION OF SELECTED FIELD**

1. I need to locate the selected field of corn on this map. What county is the selected corn field in? . . .  
 Field Description .....

COUNTY NAME	OFFICE USE
	0010

**NORTH CAROLINA ONLY**

Field location .....

LATITUDE	LONGITUDE
0050	0051
N <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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

3. We will need additional information to complete this study. We will contact you in February or March, 2002, to collect it. I'll call you then to set up a time that's good for you.

4. Would you like to receive a copy of the results of this survey in the mail?  
 (Results will also be available on the Internet at <http://www.usda.gov/nass/>) ..... YES = 1

CODE
0099

<b>RECORDS USE</b>					
5. [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				
<b>SUPPLEMENTS USED</b>					
6. [Record the total number of each type of supplement used to complete this interview.] .....	NUMBER				
FERTILIZER APPLICATIONS	0041				
PESTICIDE APPLICATIONS	0042				
FIELD OPERATIONS	0043				
<b>RESPONDENT</b>					
Respondent's name [if code 3, 4, or 9] .....  Phone ..... ( _____ ) _____	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">                     1 OPERATOR/MANAGER                      2 SPOUSE                      3 ACCOUNTANT/BOOKKEEPER                      4 OTHER                      8 OFFICE HOLD                      9 PARTNER                 </td> <td style="width: 20%; text-align: right;">CODE</td> </tr> <tr> <td style="border: none;"></td> <td style="border: 1px solid black; text-align: center;">0101</td> </tr> </table>	1 OPERATOR/MANAGER 2 SPOUSE 3 ACCOUNTANT/BOOKKEEPER 4 OTHER 8 OFFICE HOLD 9 PARTNER	CODE		0101
1 OPERATOR/MANAGER 2 SPOUSE 3 ACCOUNTANT/BOOKKEEPER 4 OTHER 8 OFFICE HOLD 9 PARTNER	CODE				
	0101				
<b>ENDING TIME [MILITARY]</b> .....	MILITARY TIME H H M M				
	0005				
<b>DATE:</b> .....	MM DD YY				
	0007 01				
<b>ENUMERATOR NAME</b> .....	ENUMERATOR ID				
	0098				
	EVALUATION				
	0100				