

**AGRICULTURAL RESOURCE MANAGEMENT STUDY  
CORN PRODUCTION PRACTICES and COSTS REPORT  
for 1996**

U.S. Department of Agriculture  
Rm 5809, South Building  
Washington, D.C. 20250  
202-720-7017

VERSION	STRATUM	ID/SEGMENT	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
02	___	- - - - -	___	___	0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMPLETE	
4 - SCREENOUT	0001
5 - NO TARGET COMMODITY	
8 - REFUSAL	
9 - INAC./INCOMPL.	
OPTIONAL	0002
OPTIONAL	0003

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

We are collecting information on 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.

BEGINNING TIME [MILITARY] .....

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

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

**SCREENING BOX**

<b>PARTNERS:</b>	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
LSF ID _____	LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

**PARTNERS' STRATUM 182**

<input type="text" value="0006"/>	<input type="text" value="0007"/>	<input type="text" value="0008"/>	<input type="text" value="0009"/>
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**C CORN FIELD SELECTION**

**C**

1. How many acres of corn did this operation plant in 1996 with the intention of harvesting them for grain?  
 (**Exclude seed corn.**) .....  
 [If no acres planted, review information on Screening Report. Make notes, then go to item 2 of Conclusion, back page.]

TOTAL PLANTED  
ACRES OF CORN  
FOR GRAIN

0045		
	. ____	

2. How many of the [item 1] corn acres were--
- a. owned by this operation? .....
  - b. rented for CASH? .....
  - c. SHARE rented? .....
  - d. used RENT-FREE? .....

ACRES	
0046	
	. ____
0047	
	. ____
0048	
	. ____
0049	
	. ____

[Total must equal item 1.]

3. I will follow a simple procedure to make a random selection of a **single field** of corn planted with the **intention** of harvesting for grain. What is the **TOTAL** number of corn fields that were planted **for grain** on your operation in 1996?  
 (**Exclude seed corn.**) [If only 1 field, go to item 5.] .....

NUMBER
0050

4. Please list these fields according to identifying numbers/names or describe each field. Then I will tell you which field has been selected.  
 (If there are more than 18 fields, list only the 18 fields closest to your permanent residence.)  
 [If respondent is unable to identify or describe the fields, use the Field Selection Supplement on page 3.]

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

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



---

**NOTES and CALCULATIONS:**

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

1. How many acres of corn did this operation plant in the selected field in 1996? .....	ACRES 0055 . _
2. Was this field--	
1 OWNED BY THIS OPERATION? 2 RENTED FOR <b>CASH</b> ? 3 <b>SHARE</b> RENTED? 4 USED <b>RENT-FREE</b> ?	CODE 0056
a. [If field is <b>CASH RENTED</b> , item 2 is 2, ask--] What was the cash rent paid (per acre)? .....	TOTAL DOLLARS OR DOLLARS & CENTS PER ACRE 0057 0058 . _ _
b. [If field is <b>SHARE RENTED</b> , item 2 is 3, ask--] What was the landlord's share of the crop from this field? .....	PERCENT 0059
3. What average yield per acre do you normally EXPECT for grain from this field? .....	BUSHELS PER ACRE 0060
4. When you made your planting decisions for this field, what market price per bushel did you use in your planning ( <i>budget</i> ) for the 1996 corn crop? .....	DOLLARS & CENTS PER BUSHEL 0061 . _ _
5. On what date was this field planted? [Use <b>CALENDAR</b> showcard and circle planting date.] .....	MM DD YY 0062 _ _ _ _ 96
7. What was the row width in inches? .....	INCHES 0063
8. What was the seeding rate per acre the first time this field was seeded? .....	UNIT CODE 1=KERNELS 2=POUNDS 3=BUSHELS QUANTITY PER ACRE 0064 0065 . _
9. Was one of these pest resistant varieties of seed used in this field-- [Show respondent Seed Variety Code List in Respondent Booklet. Choose one and enter code.]	CODE 0066
1 an herbicide resistant hybrid or variety (such as Pioneer 3162R, Beck's 6868IRT)? 2 a Bt variety for insect resistance, (such as Nature Guard or Maximizer with Knockout)? 3 a gray leaf spot resistant variety? 5 none of these?	

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

**D**

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

ACRES
0067 . __

13. What was the cost per unit of the **purchased** seed for this field?  
(*Include landlord's cost.*) .....

UNIT CODE 1=APPROX. 80,000 KERNEL BAG 2=POUNDS 4=BUSHEL	
DOLLARS AND CENTS PER UNIT	DOLLARS AND CENTS PER UNIT
0068 . __ __	0069 . __ __

a. [*Ask only if this field was RENTED, item 2 was 2 or 3.*]  
What was the landlord's cost for seed  
planted on this field? .....

PERCENT	OR	TOTAL DOLLARS
0070		0071

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

CODE
0072

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

1	2 How many acres in the corn field were (will be) harvested for-- [column 1] ACRES	3 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	4 UNIT CODE 2=BUSHEL 4=TONS
a. grain?	0074 . __	0082 . __	0090
b. silage (green chop)?	0075 . __	0083 . __ __	TONS
i. abandoned?	0098 . __		
j. other use?	0099 . __		

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

PARTIAL CROP CODE LIST FOR ITEM 17			
1 Alfalfa hay	8 Cotton	22 Rye	30 Sunflowers
190 Barley	302 CRP	25 Sorghum for grain	163 Wheat, durum
3 Dry Beans	311 Grasses other than clover	24 Sorghum for silage	164 Wheat, other spring
6 Corn for grain	11 Hay, all other	26 Soybeans	165 Wheat, winter
5 Corn for silage	15 Oats	28 Sugarbeets	318 Fallow or Idle (diverted)

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

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

18. *[If the most recent crop in item 17 was a SMALL GRAIN, such as barley, oats or wheat ask--]*

Was crop residue removed from this field  
by baling or removing straw, burning, etc.? .....

YES = 1

CODE

0114

19. Was a no-till system used to prepare and plant this corn field?

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

**NO** - [Go to item 20.] .....

0115

- a. How many consecutive years has no-till been used on this field  
(regardless of which crop was planted or grown)?  
[Enter 1 if current year only.] .....

YEARS

0116

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

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

CODE

a. grassed waterways? ..... YES = 1

0117

b. terraces? ..... YES = 1

0118

c. contour farming? ..... YES = 1

0119

d. strip cropping? ..... YES = 1

0120

e. underground outlets such as tile drainage? ..... YES = 1

0121

f. other drainage channels or diversions? ..... YES = 1

0122

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

YES = 1

0123

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

YES = 1

0124

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

YES = 1

0125



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

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

EDIT TABLE  
0201

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

LINE	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 POUNDS 12 GALLONS 19 POUNDS of ACTUAL NUTRIENTS	5 When was this applied? [Show respondent CALENDAR showcard.]  MM DD YY	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In Seed furrow 5 In irrigation water 6 Chisel, Injected or Knifed in 7 Banded in or Over Row 8 Foliar or Directed Spray 9 Spot treatments	7 How many acres were treated in this application?  ACRES
	N Nitrogen	P <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 . _____

99 OFFICE USE NUMBER OF LINES IN TABLE 0213

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

2. [Ask only if Nitrogen was applied to this field.]

Did you use any product to slow the breakdown of Nitrogen? . . . . . YES = 1 CODE  
0165

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

YES - [Enter code 1 and continue.]  NO - [Go to item 5.] . . . . . 0166

a. How much was spent for these soil tests or plant tissue tests on this field? [Include landlord's costs.] DOLLARS PER ACRE  
0167

b. [If this field was RENTED, ask--]  
 How much did your LANDLORD spend for these tests on this field? . . . . . PERCENT OR TOTAL DOLLARS  
0168 0169

4. Was a Nitrogen test performed?

YES - [Enter code 1 and continue.]  NO - [Go to item 5.] . . . . . CODE  
0170

a. Was the amount of Nitrogen applied to this field more than, less than, or exactly the amount recommended by the Nitrogen test? CODE  
0171

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

5. Is lime ever applied to this field?

CODE

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

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

0172

YEARS

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

0173

TONS PER ACRE

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

0174 . \_ \_ \_

PERCENT

c. [Ask only if field was CASH or SHARE RENTED.]  
What percent of the total cost of lime and its application was paid by the landlord? .....

0175

8. Was manure applied to this field for the 1996 corn crop? (Exclude commercially prepared manure.)

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

CODE

0176

ACRES

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

0177 . \_ \_

TOTAL TONS

OR

TOTAL GALLONS

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

0178 . \_ \_ \_

0179

c. Was the manure--

- 1 Dry Broadcast without Incorporation?
- 2 Dry Broadcast with Incorporation?
- 3 Liquid Broadcast without Incorporation?
- 4 Liquid Broadcast with Incorporation?
- 5 Injected/Knifed In?

CODE

0180

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

- 1 BEEF CATTLE?
- 2 DAIRY CATTLE?
- 3 HOGS?
- 4 SHEEP?
- 5 POULTRY?
- 6 OTHER?

0184

f. Was the manure--

- 1 PRODUCED ON THIS OPERATION?
- 2 PURCHASED?
- 3 OBTAINED AT NO COST?

0185

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

9. Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 1996 corn crop?

*(Include landlord costs. Exclude custom application of lime.)  
[If material and application costs can't be separated, exclude them here and record the total in item 10.]* . . . . .

**DOLLARS & CENTS  
PER ACRE**

0186	. ____
------	--------

**OR TOTAL DOLLARS**

0187
------

10. What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 1996 corn crop?

*(Include landlord costs. Exclude lime or 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 if it was fallow in 1995.)* . .

**DOLLARS & CENTS  
PER ACRE**

0188	. ____
------	--------

**OR TOTAL DOLLARS**

0189
------

**[If this field was RENTED, continue; otherwise go to Section F.]**

11. What was the TOTAL LANDLORD COST for CUSTOM FERTILIZER APPLICATIONS on this field for the 1996 corn crop? *(Exclude material costs.)* . . . . .

**PERCENT**

0190
------

**OR TOTAL DOLLARS**

0191
------

12. What was the TOTAL MATERIALS cost paid by the LANDLORD for fertilizers, soil conditioners and micronutrients applied to this field for the 1996 corn crop? *(Exclude application costs.)* . . . . .

**PERCENT**

0192
------

**OR TOTAL DOLLARS**

0193
------

**F PESTICIDE APPLICATIONS---SELECTED FIELD F**

EDIT TABLE

0301
------

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

<b>T-TYPE</b> 3	<b>TABLE</b> 001
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**YES** - [Continue.]       **NO** - [Go to Section G, page 14.]

NOTES	LINE	2 What products were applied to this field? [Use product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D.]	4 Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	5 When was this applied? [Show respondent CALENDAR showcard.]  MM DD YY	6 OR 7		8 [Enter unit code.]  1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS	
						How much was applied per acre per application?	What was the total amount applied per application in this field?		
	01	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	02	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	03	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	04	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	05	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	06	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	07	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	08	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	09	0305		0306	0307 _ _ _ _ _	0308 _ _ _	0309	0310	
	99	OFFICE USE						0319	
		NUMBER OF LINES IN TABLE							

[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.]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____



field for the 1996 corn crop. **By pests, we mean WEEDS, INSECTS and DISEASES.**

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

1	2 Was the corn field scouted for-- [column 1]  YES=1	3 [For rows with YES =1, ask--] Was most of the scouting for [column 1] done by--  1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Crop consultant or Commercial scout?  CODE
a. weeds .....	0226	0229
b. insects .....	0227	0230
c. diseases .....	0228	

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

	DOLLARS AND CENTS PER ACRE	OR	TOTAL DOLLARS
	0231		0232

a. What percentage of this cost was for insect scouting? .....

	PERCENT	OR	TOTAL DOLLARS
	0234		0235

b. [If this field was RENTED, ask--]  
How much did your LANDLORD pay for scouting services on this field? .....

	DOLLARS AND CENTS PER ACRE	OR	TOTAL DOLLARS
	0231		0232

4. [Ask only if column 3 of item 2 is code 1 or 2; else go to item 5.]  
How many hours did [operator, partner, family member, employee] spend scouting this field for pests? .....

	HOURS
	0236

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

		CODE
a. broadleaf weeds? .....	YES = 1	0237
b. grass weeds? .....	YES = 1	0238
d. black cutworms? .....	YES = 1	0239
e. corn rootworms? .....	YES = 1	0240
f. European corn borers? .....	YES = 1	0241
g. spider mites? .....	YES = 1	0242

6. [Ask only if HERBICIDES (pesticide codes 4000 - 4999) were entered in Section F, item 1 column 2; else go to item 11.]  
Did you apply herbicides to this field BEFORE weeds emerged?

	CODE
--	------

**G**

**PEST MANAGEMENT PRACTICES--SELECTED FIELD**

**G**

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

0243
------

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

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

0244
0245
0246
0247

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

**YES** - [Enter code 1 and continue.]       **NO** - [Go to item 10.] .....

0248
------

9. Did you decide to use **post-emergence** herbicides based on--

- a. a routine treatment? ..... **YES = 1**
- b. type and/or density of weed(s) present? ..... **YES = 1**
- c. a computerized decision model? ..... **YES = 1**
- d. recommendations from an independent crop consultant? ..... **YES = 1**

0249
0250
0251
0252

10. Were any weeds on this field resistant to--

- a. Atrazine, Aatrex, Bladex, Extrazine, Princep, Simazine or other **TRIAZINE** family herbicides? ..... **YES = 1**
- b. Account, Beacon, Classic, Pinnacle, Pursuit, Septer or other **ALS** family herbicides? ..... **YES = 1**

0253
0254

11. Do you routinely use a soil insecticide at planting time to control corn rootworm on this field?

**YES** - [Enter code 1 and go to item 14.]       **NO** - [Continue.] .....

0255
------

a. Did you scout this field for adult corn rootworm beetles during the 1995 growing season to determine the need for a soil insecticide at planting?

**YES** - [Enter code 1 and go to item 14.]       **NO** - [Continue.] .....

0256
------

b. Did you scout for adult corn rootworm beetles during the 1996 growing season to determine the need for a soil insecticide?

**YES** - [Enter code 1 and continue.]       **NO** - [Continue.] .....

0257
------

14.

1	2 ➔	3 [If YES = 1 in column 2, ask--] Was your main reason for doing this to control--  1 WEEDS 2 INSECTS 3 BOTH
Did you--	YES=1	CODE
a. control pests on this field by adjusting row spacing or plant density? .....	0262	0268
b. reduce (or control) pests by adjusting planting dates on this field? .....	0263	0269
c. control pest resistance by alternating pesticides on this field from year to year? (Use pesticides from different families.) .....	0264	0270
d. keep pests from spreading into this field by using practices such as tilling, mowing, burning, and/or chopping of field edges, lanes or roadways? .....	0265	0271
e. control pests on this field by using water management practices, such as controlled drainage or irrigation scheduling? [Exclude chemigation.] .....	0266	0272
f. reduce the spread of pests to or from this field by cleaning the harvesting and tillage implements? .....	0267	0273

16. Did you--

	CODE
a. have a biological soil analysis done on this field to detect the presence of soil pests, such as insects, diseases or nematodes? .....	0274
b. consider beneficial insects in selecting and using pesticides on this field? .....	0275
c. remove weeds in infested areas in this field to prevent insect egg laying? .....	0276
d. use seed treatments for seedling blight control? .....	0277
e. submit diseased plants from this field to a lab for diagnosis? .....	0278

17. Did you--

a. purchase and release beneficial insects in this field? .....	0279
b. use pheromone lures in this field to monitor for black cutworm? [Include traps and bait sticks.] .....	0280
c. set and monitor pre-plant grain traps for wireworms? .....	0281

18. [If any of items 17 a - c are code YES=1, continue; else go to item 19.]

What were the TOTAL materials and application costs for all biological pest controls, including pheromones, pheromone traps, beneficial insects, and floral lures, attractants or repellants applied on this field? (Exclude Bt corn seed.) .....

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0282		0283



G

**PEST MANAGEMENT PRACTICES--SELECTED FIELD**

G

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

**PEST MANAGEMENT INFORMATION SOURCES  
CODE LIST**

- 1 **Extension Advisor, Publications or Demonstrations**  
(County, Cooperative or University)
- 2 **Farm Supply or Chemical Dealer**
- 3 **Commercial Scouting Service**
- 4 **Crop Consultant or Pest Control Advisor**
- 5 **Other Growers or Producers**
- 6 **Producer Associations, Newsletters or Trade Magazines**
- 7 **Television or Radio Programs, Newspapers**
- 8 **Electronic Information Services** (*World Wide Web, DTN, etc.*)
- 9 **Other**
- 10 **None**

CODE  
0284

20. Have you (the operator) attended a training session on pest identification and management since October 1, 1995? ..... YES = 1

0285

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

0286

OFFICE USE  
0015

## H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

1. Now I need to list all tractors used to produce corn on **this selected field**.  
*(Include all tractors owned, rented, leased or borrowed and those used to haul corn out of the field to the point of first sale or storage.*  
*Exclude tractors provided by custom operators.)*

1	2 What tractors were used on THIS FIELD?  MAKE and MODEL	3 What was the model year?  [Enter last 2 digits.]	4 Is this tractor-- 2-wheel drive? 2-wheel drive with front wheel assist? 4-wheel drive? crawler? other?	5 What is its PTO horsepower?  PTO HORSEPOWER	6 Is it--  1 diesel? 2 gasoline ? 3 LP gas 9 other?
1		0320	0326	0332	0338
2		0321	0327	0333	0339
3		0322	0328	0334	0340
4		0323	0329	0335	0341
5		0324	0330	0336	0342
6		0325	0331	0337	0343

# H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H

3. Next, I need to list field work performed by machines on this field for the 1996 corn crop. Let's begin with the first activity after harvest of the preceding crop and continue through hauling the crop out of the field. **Include** fertilizer and pesticide applications and ALL custom operations. **Please list the operations in the order they occurred AND maintain the order of tandem hook-ups.**

(If this field was fallow (idle, diverted) during 1995, list operations starting with the fall of 1994. **Include** plowing, corrugation, land preparation, planting, applying fertilizers and pesticides, preparing for irrigation, harvesting and hauling the corn from the field using carts, trailers, or wagons. **Exclude** the application of lime.)

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 13.]

<b>INCLUDE FERTILIZER and PESTICIDE IMPLEMENTS</b>
<b>INCLUDE CUSTOM OPERATIONS</b>

[If column 5 is code 6 (CUSTOM), skip columns 7-11.]

2 S E Q U E N C E  No.	3 What operation or equipment was used?	4 [Record machine code from Responde nt Booklet.]	5 Who was the machine operator-- [Enter code from above. If code = 6 (CUSTOM), go to column 13.]  CODE	7 What was the size or swath of the [machine] used?	8 [Record size code.] 1 FEET 2 ROW 3 MOLDBOARD (bottoms) HAULING 4 POUNDS 5 BUSHELS 6 TONS	9 Which tractor was used? [Record line number from item 1.] 66 Animal Drawn 77 Pick-Up 88 Other Trucks 99 Self-Propelled	10	11	13
							How many acres were covered? 1/	What were the acres covered per hour?	In what month was this operation done?  MM
							ACRES	ACRES PER HOUR	
0369		0394	0424	0471	0501	0531	0561	0586	0641
0370		0395	0425	0472	0502	0532	0562	0587	0642
0371		0396	0426	0473	0503	0533	0563	0588	0643
0372		0397	0427	0474	0504	0534	0564	0589	0644
0373		0398	0428	0475	0505	0535	0565	0590	0645
0374		0399	0429	0476	0506	0536	0566	0591	0646
0375		0400	0430	0477	0507	0537	0567	0592	0647
0376		0401	0431	0478	0508	0538	0568	0593	0648
0377		0402	0432	0479	0509	0539	0569	0594	0649
0378		0403	0433	0480	0510	0540	0570	0595	0650
0379		0404	0434	0481	0511	0541	0571	0596	0651
0380		0405	0435	0482	0512	0542	0572	0597	0652
0381		0406	0436	0483	0513	0543	0573	0598	0653
0382		0407	0437	0484	0514	0544	0574	0599	0654
0383		0408	0438	0485	0515	0545	0575	0600	0655
0384		0409	0439	0486	0516	0546	0576	0601	0656
0385		0410	0440	0487	0517	0547	0577	0602	0657

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, **AND** for hauling operations, enter total HOURS, not acres. Then leave column 11 blank.

OFFICE USE

0017

## LABOR

5. I need to get some additional information about labor used on this field. I would like to list ALL workers, both paid and unpaid, that worked on this field to produce the 1996 corn crop,

**H FIELD OPERATIONS, LABOR and CUSTOM SERVICES---SELECTED FIELD H**

including you (the operator) and any partners.  
 (List individuals or groups of workers. If workers are grouped, indicate type and number.  
**Exclude** contract and custom labor.)

**[Enumerator Instructions:** First, list the workers in column 1. Probe to include workers who worked on the field during the fall of 1995 and earlier if the field was left fallow during 1995. When all workers are listed in column 1, complete the table.]

[Ask only if (worker in column 1) is PAID, column 3=code1.]

1 <b>WORKERS</b>	2 [Enter number of workers.]	3 <b>Was (worker)--</b> 1 PAID 2 UNPAID [--Go to column 6.]	4 <b>Was (worker)--</b> 1 FULL TIME 2 PART TIME 3 SEASONAL	5 <b>What was the average cash wage rate paid per hour for ALL of (worker's) work on this field?</b>  DOLLARS & CENTS PER HOUR	6 <b>What was the TOTAL number of hours (worker) worked on activities for this field, OTHER THAN THE HOURS JUST REPORTED OPERATING MACHINES?</b> (Include time spent loading materials into equipment, scouting, irrigating, hauling with trucks, drying and management activities.)  TOTAL HOURS
<input type="checkbox"/> You (the operator)					0683
<input type="checkbox"/> Partners	0684				0685
<input type="checkbox"/> Spouse		0686	0687	0688	0689
	0690	0703	0716	0729	0742
	0691	0704	0717	0730	0743
	0692	0705	0718	0731	0744
	0693	0706	0719	0732	0745
	0694	0707	0720	0733	0746
	0695	0708	0721	0734	0747
	0696	0709	0722	0735	0748
	0697	0710	0723	0736	0749
	0698	0711	0724	0737	0750
	0699	0712	0725	0738	0751
	0700	0713	0726	0739	0752
	0701	0714	0727	0740	0753
	0702	0715	0728	0741	0754

6. [Ask only if UNPAID labor was reported in column 3 of item 5.]  
 What percentage of the total hours worked on this field by UNPAID workers were worked by children under 16 years old? .....

**PERCENT**

0755
------



**IRRIGATION---SELECTED FIELD**

ACRES

1. How many acres in this field were irrigated for the 1996 corn crop?  
 [If none, go to Section J, page 25.] .....
2. Now, I have some questions about irrigation systems and water used on this field for the 1996 corn crop.

0785	. ____
------	--------

↓	UNIT	SYSTEM 1	SYSTEM 2														
a. What type(s) of irrigation system(s) were used to irrigate this field? [Ask Respondent to look at <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	0786	0798														
b. What was the <b>total</b> number of inches of water applied <b>per acre</b> to this field during the entire growing season? [Include ALL water used from both on-farm and off-farm sources.] .....	INCHES PER ACRE	0787	0799														
c. [If operator cannot provide item b, ask--] 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	0788	0800														
e. What percentage of the water used to irrigate this field through this system came from surface water sources? .....	PERCENT	0789	0801														
f. 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	0790	0802														
g. 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	0791	0803														
<table border="0" style="font-size: small;"> <tr><td>1</td><td>TURBINE?</td></tr> <tr><td>2</td><td>SUBMERSIBLE?</td></tr> <tr><td>3</td><td>CENTRIFUGAL?</td></tr> <tr><td>4</td><td>BOOSTER?</td></tr> <tr><td>5</td><td>SIPHON?</td></tr> <tr><td>99</td><td>NO PUMP-?</td></tr> <tr><td></td><td>[Go to item m.]</td></tr> </table>	1	TURBINE?	2	SUBMERSIBLE?	3	CENTRIFUGAL?	4	BOOSTER?	5	SIPHON?	99	NO PUMP-?		[Go to item m.]			
1	TURBINE?																
2	SUBMERSIBLE?																
3	CENTRIFUGAL?																
4	BOOSTER?																
5	SIPHON?																
99	NO PUMP-?																
	[Go to item m.]																
h. What was the average pumping rate? .....	GALLONS PER MINUTE	0792	0804														
i. [If item 2a is code 1-9 (PRESSURE SYSTEM), ask--] What was the system operating pressure? .....	POUNDS PER SQUARE INCH	0793	0805														
j. What was the motor type?	CODE	0794	0806														
<table border="0" style="font-size: small;"> <tr><td>1</td><td>DIESEL</td></tr> <tr><td>2</td><td>GASOLINE</td></tr> <tr><td>3</td><td>LP GAS</td></tr> <tr><td>4</td><td>NATURAL GAS</td></tr> <tr><td>5</td><td>ELECTRICITY</td></tr> <tr><td>6</td><td>SOLAR POWER</td></tr> </table>	1	DIESEL	2	GASOLINE	3	LP GAS	4	NATURAL GAS	5	ELECTRICITY	6	SOLAR POWER					
1	DIESEL																
2	GASOLINE																
3	LP GAS																
4	NATURAL GAS																
5	ELECTRICITY																
6	SOLAR POWER																
k. What was the average motor size? .....	HORSE-POWER	0795	0807														
m. [Ask only if NO PUMP was used (item g is code 99); else go to item n.] What was the average flow rate? .....	GALLONS PER MINUTE	0796	0808														
n. How many <b>other</b> crop acres on this operation were irrigated using this field's irrigation system during the 1996 growing season? [ <b>Exclude this field.</b> ] .....	ACRES	0797	0809														

**IRRIGATION---SELECTED FIELD**

3. Was any water purchased to irrigate this field?  
*(Include landlord's share. Include purchases from all sources.)*

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

**CODE**

0817
------

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

**PERCENT**

0818
------

b. What was the total cost for the water purchased for this field during the 1996 growing season?  
*[Include landlord's cost.]* .....

**DOLLARS**

0819
------

4. *[If SIPHON TUBES were used (line a of item 2 is 10 or 11), ask--]*  
 What would be the total cost to replace all the siphon tubes used on this field? .....

0820
------

5. *[If POLY PIPE system was used (line a of item 2 is 14), ask--]*  
 What was the total amount spent for poly pipe used on this field during the 1996 growing season? .....

0821
------

6. *[If GATED PIPE system was used (line a of item 2 is 15 or 16), ask--]*  
 a. What was the average diameter of gated pipe used to irrigate this field? .....

**INCHES**

0822
------

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

**FEET**

0823
------

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

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

**CODE**

0824
------

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

**NUMBER**

0825
------

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

**INCHES**

0826
------

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**

0827
------

**IRRIGATION---SELECTED FIELD**

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	ASBESTOS CONCRETE
4	STEEL
5	PLASTIC
6	OTHER
(SPECIFY: _____)	

CODE

0828
------

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

INCHES

0829
------

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

FEET

0830
------

9. [If this field was RENTED, continue; else go to item 10.]

What was the LANDLORD's share of the total cost for--

- a. fuel, lubrication and electricity used to irrigate this field? .....
- b. repairs for irrigation equipment used to irrigate this field? .....
- c. purchased irrigation water used to irrigate this field? .....

PERCENT	OR	TOTAL DOLLARS
0831		0832
0833		0834
0835		0836

10. 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	or is there no run off?

CODE

0837
------



J

**DRYING**

J

PERCENT

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

0840	. ____
------	--------

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

1	2 Was most of [column 1]'s (share of) corn from this field--	3 [If CUSTOM DRIED (column 2 is code 3), ask--] How much did [column 1] pay for custom drying?	
	1 DRIED USING OPERATION'S FACILITIES 2 DRIED USING LANDLORD'S FACILITIES 3 CUSTOM DRIED (Include drying on another operation.) 4 NOT DRIED	OR	
		CENTS PER BUSHEL	TOTAL DOLLARS
a. <b>this operation</b> (Exclude landlord's share.)	0841	0843	0845
[Ask only if field was share rented.] b. <b>the landlord</b> .....	0842	0844	0846

3. **[ENUMERATOR INSTRUCTION:** *If ANY corn was DRIED using operator's or landlord's facilities (column 2 is code 1 or 2) → continue; else, go to Section K, page 27.]*

4. [If the selected field was SHARE RENTED, continue; else go to item 5.]

How much did your LANDLORD contribute for--

	PERCENT	OR	TOTAL DOLLARS
a. fuel and/or electricity used for drying corn from the selected field? .....	0847		0848
b. repairs of the facilities used for drying corn from the selected field? .....	0849		0850



K

## VEHICLES and TRUCKS--ENTERPRISE

K

## 1. Now I'm done with questions about this field.

My last questions are about **all** vehicles and trucks that were used on the **entire** 1996 crop of corn planted **for grain** (no matter which field it was grown in). (**Exclude** seed corn.) (**Include** all vehicles owned, rented, leased or borrowed, and those used to haul corn out of the field to the point of first sale or storage. **Exclude** vehicles provided by custom operators.)

1 VEHICLES	2 How many [vehicles] were there?  NUMBER	3 What was the total mileage driven by these [vehicles] for all farm uses during the past 12 months?  MILES	4 What percent of these miles were for the corn crop?  PERCENT
Pick-ups, Cars & Sport Utility Vehicles	0861	0863	0865
ATVs and Motorcycles	0862	0864	0866

1 What other trucks were used for the 1996 corn crop?  (Exclude pick-ups)  MAKE	2 Is this truck- diesel? gasoline? LP gas? other?  CODE	3 Is it-- single axle? tandem axle? semi?  CODE	4 How many total miles was this truck driven for all farm uses during the past 12 months?  MILES	5 What percentage of these farm-use miles were for the entire corn crop?  PERCENT
	0867	0873	0879	0885
	0868	0874	0880	0886
	0869	0875	0881	0887
	0870	0876	0882	0888
	0871	0877	0883	0889
	0872	0878	0884	0890

# CONCLUSION

## LOCATION OF SELECTED FIELDS

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

OFFICE USE-- COUNTY FIPS CODE
0021

What county is the selected corn field in? \_\_\_\_\_

**[ENUMERATOR ACTION:** *Mark the map to indicate where the selected corn field is located. Be sure the "X" you mark on the map is in this county.]*

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

0022	<b>OPERATOR'S SSN</b>
_ - - - -	_ - - - -

0023	<b>OPERATION EIN</b>
_ - - - -	_ - - - -

3. There's other information we need in order to complete the profile of your operation. Because we'll be asking about year-end information, we will contact you in February or March, 1997, when your records are complete. I'll call you then to set up a time that's good for you.

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

<b>RESPONDENT</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">1</td> <td>OPERATOR/MANAGER/PARTNER</td> <td style="width: 10%; text-align: center;">.....</td> </tr> <tr> <td style="text-align: center;">2</td> <td>SPOUSE</td> <td style="text-align: center;">.....</td> </tr> <tr> <td style="text-align: center;">3</td> <td>ACCOUNTANT/BOOKKEEPER</td> <td style="text-align: center;">.....</td> </tr> <tr> <td style="text-align: center;">4</td> <td>OTHER</td> <td style="text-align: center;">.....</td> </tr> </table>	1	OPERATOR/MANAGER/PARTNER	.....	2	SPOUSE	.....	3	ACCOUNTANT/BOOKKEEPER	.....	4	OTHER	.....	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center; padding: 2px;"><b>CODE</b></td> </tr> <tr> <td style="text-align: center; padding: 2px;">0025</td> </tr> </table>	<b>CODE</b>	0025
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3	ACCOUNTANT/BOOKKEEPER	.....														
4	OTHER	.....														
<b>CODE</b>																
0025																
Respondent's name [if code 3 or 4] .....																
Phone ..... ( ) .....																
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