



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

U.S. Department of Agriculture
Rm 5805, South Building
1400 Independence Avenue, S.W.
Washington, D.C. 20250-2000
202-720-7017

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
CORN PRODUCTION
PRACTICES REPORT
for 1999**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 10/31/00
Project Code 906
Phase II

VERSION 05	POID _____	TRACT 00	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMPLETE	0910
5 - OUT OF SCOPE	
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 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 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.

735

Draft: July 16, 1999

H H M M

BEGINNING TIME 0004
[MILITARY] _____

SCREENING BOX

0006

[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 0008
3 = ZERO TARGET

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

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

A CORN FIELD SELECTION

1. How many acres of corn did this operation plant for the 1999 crop year?

[> If no acres planted, review Phase I Information Form. Make notes, then go to item 3 on back page.]

TOTAL PLANTED ACRES
0019

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

TOTAL NUMBER OF FIELDS PLANTED
0020

[If only 1 field, go to item 4.]

3. I will follow a simple procedure to make a random selection from the (item 2) corn fields planted for the 1999 crop.

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

- > [If there are more than 18 fields make sure item 2 is TOTAL fields planted, and list only the 18 fields closest to the operator's permanent residence.
- > [If respondent is unable to identify or describe the fields, use the Field Selection Grid.]

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 _____

APPLY "RANDOM NUMBER" LABEL HERE

4. [ENUMERATOR ACTION:

Circle the pair of numbers on the above label associated with the last numbered field in item 3. Select the field according to the number you circled on the label, and record the selected number. If only 1 field, enter 1.]

SELECTED FIELD NUMBER
0021

5. The field selected is (field name/number/description). During this interview, the corn questions will be about this selected corn field.

[Be sure the operator can identify the selected field.]

OFFICE USE
OY Field Substituted
0022

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of corn did this operation plant in this field for the 1999 crop? ACRES
0735

2. How many acres in this field were--

	ACRES
a. owned by this operation?	0736 .__
b. rented for CASH?	0737 .__
c. SHARE rented?	0738 .__
d. used RENT-FREE?	0739 .__

3. What year did you start operating this field? YEAR
0740

a. Do you EXPECT to be operating this field for the next 5 years (through the 2004 crop year)?

	CODE
YES = 1	0741

4. On what date was this field planted? MM DD YY
0742

6. What was the seeding rate per acre the first time this field was seeded? UNIT CODES for Seeding Rate
1=POUNDS
2=CWT.
4=BUSHELS
25=KERNELS/SEEDS

	UNITS PER ACRE	
.....	0744 .__	0745

a. Was the seed--

	1 Drilled? 2 Planted in conventional rows? 3 Broadcast on this field?	CODE 0746
--	---	--------------

b. [If DRILLED or PLANTED, ask--]
What was the row width in inches? INCHES
0747

8. **Which type of corn seed variety was used--**

[Show Seed Type Code List. Choose one code.]

CODE

0749

a. in this field in 1999?

0750

b. in this field in 1998?

[Leave blank if different commodity planted in 1998.]

SEED TYPE - CORN	
1	Genetically modified herbicide resistant seed variety
2	NON-genetically-modified herbicide resistant variety
3	Bt variety for insect resistance
4	Variety with both insect and herbicide resistance
6	Variety planted not listed above

9. [If used RESISTANT seed, ask--]

Seed varieties may offer several benefits.

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

- 1 Increase yields through improved pest (*weed, insect or disease*) control?
- 2 Decrease pesticide input costs?
- 3 Increase planting flexibility, (*for example, easier to rotate crops, reduce carryover, use reduced tillage or no-till systems, etc.*)?
- 4 Adopt more environmentally-friendly practices?
- 5 For some other reason(s)? [*Specify _____*]

CODE

0751

CODE

0752

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

11. **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
	ACRES	UNITS PER ACRE	
a. harvested for grain?	0753 • ____	0754 • ____	0755
b. harvested for silage or green chop?	0756 • ____	0757 • ____	TONS
c. harvested for seed for planting?	0758 • ____	0759 • ____	0760
d. abandoned?	0761 • ____		
e. used for some other purpose?	0762 • ____		

.....

**CROP CODE LIST for item 12
PREVIOUSLY PLANTED CROP was--**

FIELD CHARACTERISTICS---SELECTED FIELD

1 Alfalfa hay 190 Barley 3 Dry Beans 85 Canola 310 Clover 6 Corn for grain 5 Corn for silage	281 Cotton, Upland 282 Cotton, Pima 302 CRP 311 Grasses other than clover 11 Hay, all other 94 Mustard 15 Oats	16 Peanuts 17 Dry Peas 20 Potatoes 21 Rice 22 Rye 98 Safflower 25 Sorghum for grain 24 Sorghum for silage	26 Soybeans 28 Sugarbeets 30 Sunflowers 142 Vegetables 163 Wheat, durum 164 Wheat, other spring 165 Wheat, winter 318 No crop planted during this period
--	--	--	--

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

1		2	
What crop was PLANTED on this field in--		Was this crop irrigated?	
	CROP NAME	CROP CODE	YES = 1
a. FALL of 1998?		0764	0765
b. SPRING/SUMMER of 1998?		0766	0767
c. FALL of 1997?		0768	0769
d. SPRING/SUMMER of 1997?		0770	0771
e. FALL of 1996?		0772	0773
f. SPRING/SUMMER of 1996?		0774	0775

13. Was crop residue (from the previous crop planted) removed from this field by baling or removing straw or stalks, burning, etc.? YES = 1

CODE

0776

FIELD CHARACTERISTICS---SELECTED FIELD

1	2	3
Did your land-use practices for this field include--	In what year were the (column 1) established in this field?	Excluding government cost sharing payments, how much of the cost of building the (column 1) was paid directly by you?
CODE	YEAR	PERCENT
a. terraces? YES = 1	0777	0779
b. temporary or permanent levees? YES = 1	0781	0783
c. grassed waterways? YES = 1	0785	0787
d. filter strips or riparian buffers on or adjoining the field? YES = 1	0789	0791
e. contour farming? YES = 1	0793	
f. strip cropping? YES = 1	0794	
g. underground outlets such as tile drainage? YES = 1	0795	
h. other drainage channels or diversions? YES = 1	0796	

	CODE
15. Has the Natural Resource Conservation Service or NRCS classified any part of this field as "Highly Erodible"? YES = 1	0797
16. Have you been notified by NRCS that this field contains a wetland? YES = 1	0798
17. Have you received assistance from NRCS in 1999 for planning or installation of conservation practices or systems? YES = 1	0799
18. Have you received financial cost-sharing assistance from the Farm Service Agency (formerly ASCS) in 1999 for installation of conservation practices or systems? YES = 1	0800

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 1999 corn crop? YES=1

CODE	EDIT TABLE
0801	0201

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

3. How many trips were made across this field to apply commercial fertilizer for the 1999 crop (include applications made by airplanes and commercial applicators)?

NUMBER
0802

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

CHECK LIST		T-TYPE	TABLE
INCLUDE	EXCLUDE	2	001
<input type="checkbox"/> Custom applied fertilizers <input type="checkbox"/> Fertilizer applied in the fall of 1998 and those applied earlier if this field was fallow in 1998 <input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Fertilizer applied to previous crops in this field	OFFICE USE LINES IN TABLE	0213
		LINE 99	

LINE	2 → → → MATERIALS USED			3 What quantity was applied per acre?	4 [Enter material code.]	5 When was this applied?	6 How was this applied?	7 How many acres were treated in this application?
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash	[Leave this column blank if actual nutrients were reported.]	1 Pounds 12 Gallons 19 Pounds of actual nutrients	1 Before seeding (fall) 2 Before seeding (spring) 3 At seeding 4 After seeding	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/Sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	ACRES
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

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

CODE

5. Was a nitrogen soil test performed on this field? YES = 1

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

POUNDS PER ACRE

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

6. [Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 7 and 8. If NO nitrogen applied, skip to item 9.]

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

CODE

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

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

c. Crop consultant recommendation? YES = 1

d. Fertilizer dealer recommendation? YES = 1

e. Extension Service recommendation? YES = 1

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

8. 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

9. Was a soil test performed on this field in 1998 or 1999 for the 1999 corn crop? YES = 1

10. Was a plant tissue test performed on this field in 1998 or 1999 for the 1999 corn crop? YES = 1

11. Is lime ever applied to this field? YES = 1

a. [If lime applied, ask--]

YEARS

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

b. [If lime applied, ask--]

TONS PER ACRE

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

CODE

12. Was sulfur applied to this field for the 1999 crop? YES = 1

a. [If sulfur applied, ask--]

POUNDS PER ACRE

How many pounds of sulfur were applied per acre?

CODE

13. Was gypsum applied to this field for the 1999 crop? YES = 1

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

C

14. Were micronutrients applied to this field for the 1999 crop? YES = 1

0820

a. [If micronutrients applied, ask--]

Did the micronutrients include zinc? YES = 1

0821

15. Was manure applied to this field for the 1999 corn crop?
(Exclude commercially prepared manure.)

CODE

YES - [Enter code 1 and continue.]

0822

NO - [Go to Section D.]

ACRES

a. How many acres was manure applied to?

0823

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

TOTAL TONS

OR

TOTAL GALLONS

0824

0825

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

0826

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

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

CODE

0827

e. Was the manure--

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

CODE

0828

D PESTICIDE APPLICATIONS---SELECTED FIELD D

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 1999 corn crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the corn field for the 1999 crop? YES = 1

CODE	EDIT TABLE
0830	0301

[Probe for applications made in the fall of 1998 (and those made earlier if this field was fallow).]
 [If none, go to Section E.]

CHECK LIST		
<input type="checkbox"/> INCLUDE	<input type="checkbox"/> EXCLUDE	
<input type="checkbox"/> Defoliants	<input type="checkbox"/> Insecticides	<input type="checkbox"/> Fertilizers reported earlier
<input type="checkbox"/> Fungicides	<input type="checkbox"/> All other pesticides	<input type="checkbox"/> Seed treatments
<input type="checkbox"/> Herbicides		

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

NOTES	LINE	2 What products were applied to this field? [Show 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 mix.]	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting 5 Defoliation prior to harvest	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 in or over row
3 Broadcast, by air (Aerial application)	8 Foliar or directed spray
4 In seed furrow	9 Spot treatment
5 In Irrigation water	



LINE	9	10	11	12	13	14
	How was this product applied? <i>[Enter code from above.]</i>	How many acres in this field were treated with this product? ACRES	What was the number of times applied? NUMBER	What was the PRIMARY target pest for this application? <i>[Show Target Pest codes from Respondent Booklet.]</i>	This year, was the problem of this pest-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee / Other?
01	0311	0312 .__	0313	0314	0315	0316
02	0311	0312 .__	0313	0314	0315	0316
03	0311	0312 .__	0313	0314	0315	0316
04	0311	0312 .__	0313	0314	0315	0316
05	0311	0312 .__	0313	0314	0315	0316
06	0311	0312 .__	0313	0314	0315	0316
07	0311	0312 .__	0313	0314	0315	0316
08	0311	0312 .__	0313	0314	0315	0316
09	0311	0312 .__	0313	0314	0315	0316
10	0311	0312 .__	0313	0314	0315	0316
11	0311	0312 .__	0313	0314	0315	0316
12	0311	0312 .__	0313	0314	0315	0316
13	0311	0312 .__	0313	0314	0315	0316
14	0311	0312 .__	0313	0314	0315	0316

T-TYPE 0	TABLE 000	LINE 00
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E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

- Now I have some questions about your pest management decisions and practices used on this field for the 1999 corn crop. By pests, we mean WEEDS, INSECTS and DISEASES.
- Let's begin with questions about scouting this field for pests.

<p>1</p> <p>Was this corn field scouted for--</p>	<p>2</p> <p>[If YES, ask--] Who did the majority of the scouting for [column 1]--</p> <p>1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout?</p> <p>CODE</p>
YES=1	
a. weeds?	0831 0832
b. insects?	0833 0834
c. diseases?	0835 0836

- [If field SCOUTED, ask--]

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

YES = 1

CODE

0837

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

4. [Enumerator Action: *Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?*]
 YES - [Continue.] NO - [Go to item 9.]

5. Did you apply herbicides to this corn field BEFORE weeds emerged? YES = 1

CODE
0838

a. [Enumerator Action: *Were PRE-EMERGENT HERBICIDES used?*]
 YES - [Continue.] NO - [Go to item 7.]

6. Did you decide to apply herbicides BEFORE weeds emerged on this corn field based on--

0839
0840
0841
0842

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

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

0843

a. [Enumerator Action: *Were POST-EMERGENT HERBICIDES used?*]
 YES - [Continue.] NO - [Go to item 9.]

8. Did you decide to apply herbicides AFTER weeds emerged on the corn field based on--

0844
0845
0846
0847

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

9. [Enumerator Action: *Were INSECTICIDES used (pesticide product codes 1000-1999), in Section D, item 1 column 2?*]
 YES - [Continue.] NO - [Go to item 11.]

10. Did you decide to apply insecticides to this corn field based on--

0848
0849
0850
0851
0852

a. a preventative schedule? YES = 1
 b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1
 c. standard practices or history of insect problems? YES = 1
 d. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? YES = 1
 e. your (the operator's) own determination of the infestation level? YES = 1

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

OTHER PEST MANAGEMENT PRACTICES

CODE

11.	Was protection of beneficial organisms a factor in your pest control decisions for this field?	YES = 1	0853
12.	Did you use any beneficial organisms to control pests in this field?	YES = 1	0854
13.	Did you use water management practices, such as controlled drainage or irrigation scheduling to control pests in this field? <i>[Exclude chemigation.]</i>	YES = 1	0855
14.	Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field?	YES = 1	0856
15.	Did you clean equipment and implements after completing field work to reduce the spread of pests from this field?	YES = 1	0857
16.	Did you cultivate this field for weed control during the growing season?	YES = 1	0858
17.	Did you consider pest resistance when selecting which variety to plant in this field?	YES = 1	0859
18.	Did you treat the seed used in this field for disease control?	YES = 1	0860
19.	Did you adjust planting or harvesting dates to control pests?	YES = 1	0861
20.	Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field?	YES = 1	0862
21.	Did you alternate pesticides (use pesticides with different mechanisms of action) to keep pests from becoming resistant to pesticides in this field?	YES = 1	0863
22.	Did you adjust row spacing or plant density to control pests in this field?	YES = 1	0864
23.	Did you rotate crops on this field during the past 3 years to control pests?	YES = 1	0865
26.	Did you do any other type(s) of pest management to control pests in this field?	YES = 1	0869
	a. <i>[If YES, ask--]</i>		
	What did you do? <i>[List other activities.]</i>		
			0870
			0871
			0872

PEST MANAGEMENT INFORMATION

27. [Show Pest Management Information Sources code List.]

What was your primary outside source of information on pest management recommendations for the 1999 corn crop?

PEST MANAGEMENT INFORMATION SOURCES
CODE LIST [Choose one.]

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

[Choose one source
and enter code.]

0873

PEST MANAGEMENT TRAINING

28. Have you (the operator) attended any training session on pest identification and management since October 1, 1998? YES = 1

CODE

0028

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

CODE

0029

OFFICE USE

0030

1. **Including custom operations, I need to list field work performed by machines on this field for the 1999 corn crop. Please...**

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 1998, list operations starting with fall 1997.)
- ▶ List the operations in order through seeding, 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 Operator?

CHECK LIST

Include all field work using machines for--

Land Forming
 Tillage
 Preparing for Irrigation before seeding
 Planting

Exclude

Lime & Gypsum applications
 Fertilizers & Pesticides applications
 Operations that occur after planting
 Harvesting & Hauling

2 S E Q U E N C E N O.	3 What operation or equipment was used on this field?	4 [Record machine code from Respondent Booklet.] CODE	5 Who was the machine operator-- [Enter code from above.]	[If CUSTOM (column 5 is code 6) skip columns 6 & 7.]		8 In what month was this operation done? MM YY
				6 How many acres were covered? 1/ ACRES	7 How many acres were covered per hour? ACRES PER HOUR	
0321		0322	0323	0324 .	0325 .	0326
0328		0329	0330	0331 .	0332 .	0333
0335		0336	0337	0338 .	0339 .	0340
0342		0343	0344	0345 .	0346 .	0347
0349		0350	0351	0352 .	0353 .	0354
0356		0357	0358	0359 .	0360 .	0361
0363		0364	0365	0366 .	0367 .	0368
0370		0371	0372	0373 .	0374 .	0375
0377		0378	0379	0380 .	0381 .	0382
0384		0385	0386	0387 .	0388 .	0389
0391		0392	0393	0394 .	0395 .	0396
0398		0399	0400	0401 .	0402 .	0403
0405		0406	0407	0408 .	0409 .	0410
0412		0413	0414	0415 .	0416 .	0417
0419		0420	0421	0422 .	0423 .	0424

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, enter total HOURS, not acres. Then leave column 7 blank.

OFFICE USE

0032

CODE

4. **Was there (will there be) a yield monitor on the equipment used to harvest this corn field?** YES = 1

a. [If YES, ask--]

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

5. **Regardless of when done, has this field been soil grid-sampled and grid-mapped?** YES = 1

6. **Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 1999 growing season?** YES = 1

7. **Was variable rate technology (VRT) used for--**

a. fertilization or liming? YES = 1

b. seeding? YES = 1

c. pesticide applications? YES = 1

1. How many acres in this field were irrigated for the 1999 corn crop?

ACRES
0884

[If field irrigated, continue. If NOT irrigated, go to Section H.]

2. Now, I have some questions about the irrigation of this field for the 1999 corn crop.

a. What type of irrigation system was used to irrigate this field?

[Show System Type Codes. If more than 1 system used, enter System Type Code for system covering the most field acres.]

SYSTEM TYPE CODE
0885

b. What was the total number of inches of water per acre applied to this field during the entire growing season? (Include ALL water used from both on-farm and off-farm sources.)

INCHES PER ACRE
0886

[If operator cannot provide item 2b, ask--]

(1) What is the total number of hours that water was applied to this field during the growing season?

TOTAL HOURS
0887

(2) How many gallons per minute were applied?

GALLONS PER MINUTE
0888

c. What percent of ALL water used to irrigate this field came from surface water sources?

PERCENT
0889

d. What was the number of times this field was irrigated during the growing season?

NUMBER
0890

3. Was any water purchased to irrigate this field?

(Include landlord's share and purchases from all sources.) YES = 1

CODE
0891

a. [If water purchased, ask--]

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

PERCENT
0892

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

YES = 1

CODE
0893

5. Is the runoff from this field primarily--

RUNOFF CODES
1 re-used to irrigate on the farm?
2 retained at the end of the field with no re-use?
3 collected in evaporation ponds on the farm?
4 drains from the farm?
5 there is no runoff?

CODE
0894

H OPERATOR and OPERATION CHARACTERISTICS H

1. In 1999, was this operation's LEGAL STATUS--

1	Individual (<i>Sole/family Proprietorship</i>)?
2	A legal Partnership?
3	A Family-held Corporation?
4	A Non-family Corporation?
5	Other, <i>including estates, trusts and cooperatives?</i> (Describe _____)

ENTER CODE

0035

2. In 1999, what was your (*the operator's*) major occupation?

1	Farm or ranch work
2	Hired manager
3	Something else
4	Retired

CODE

0036

3. What is the *highest* level of formal education you (*the operator*) have completed?

1	Less than high school
2	High school diploma or equivalency (GED)
3	Some college
4	Completed 4 year degree (BA or BS)
5	Graduate school

CODE

0037

4. Now I would like to classify the total acres operated in terms of total gross value of sales.

Considering--

- all crops sold,
- all livestock, poultry (*including commercial broilers*), and products (*milk, eggs, etc.*) sold,
- all sales of crops, livestock or poultry, produced under contract,
- all sales of any miscellaneous agricultural products,
- all government payments received,
- landlord's share of government payments and crops sold in 1999;

What code represents the total gross value of sales for this operation in 1999?

- 1 Less than \$1,000
- 2 \$ 1,000 -- \$ 2,499
- 3 \$ 2,500 -- \$ 4,999
- 4 \$ 5,000 -- \$ 9,999
- 5 \$ 10,000 -- \$ 19,999
- 6 \$ 20,000 -- \$ 24,999
- 7 \$ 25,000 -- \$ 39,999
- 8 \$ 40,000 -- \$ 49,999
- 9 \$ 50,000 -- \$ 99,999
- 10 \$ 100,000 -- \$ 249,999
- 11 \$ 250,000 -- \$ 499,999
- 12 \$ 500,000 and over

CODE

0038

5. Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation?

FARM TYPE CODE

0039

FARM TYPE CODES

<ul style="list-style-type: none"> 1 GRAINS and OILSEEDS 2 TOBACCO 3 COTTON 4 VEGETABLES and MELONS 5 FRUIT, TREE NUTS and BERRIES 6 NURSERY, GREENHOUSE and FLORICULTURE 7 OTHER CROPS 	<ul style="list-style-type: none"> 8 BEEF CATTLE 9 DAIRY 10 HOGS 11 SHEEP, GOATS, WOOL and MOHAIR 12 EQUINE 13 POULTRY and EGGS 14 AQUACULTURE 15 OTHER ANIMALS
--	---

OFFICE USE

0040

20
CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of corn on this map. COUNTY NAME OFFICE USE--
COUNTY FIPS CODE

What county is the selected corn field in? . . .

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. **Would you like to receive a copy of the results of this survey in the mail?** CODE

(Results will also be available on the Internet at <http://www.usda.gov/nass>) YES = 1

RECORDS USE

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

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

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

SUPPLEMENTS USED NUMBER

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

	FERTILIZER APPLICATIONS	<input style="width: 100%; height: 25px; text-align: center;" type="text" value="0041"/>
	PESTICIDE APPLICATIONS	<input style="width: 100%; height: 25px; text-align: center;" type="text" value="0042"/>
	FIELD OPERATIONS	<input style="width: 100%; height: 25px; text-align: center;" type="text" value="0043"/>

RESPONDENT	1 OPERATOR/MANAGER/PARTNER 2 SPOUSE 3 ACCOUNTANT/BOOKKEEPER 4 OTHER	CODE <input style="width: 100%; height: 25px; text-align: center;" type="text" value="0101"/>
Respondent's name <i>[if code 3 or 4]</i>	<input style="width: 300px; height: 25px;" type="text"/>	
Phone	(<input style="width: 50px;" type="text"/>) <input style="width: 200px;" type="text"/>	
ENDING TIME [MILITARY]		MILITARY TIME H H M M <input style="width: 100%; height: 25px; text-align: center;" type="text" value="0005"/>
DATE:		MM DD YY <input style="width: 100%; height: 25px; text-align: center;" type="text" value="0007__ __ 99"/>
ENUMERATOR NAME _____		ENUMERATOR ID <input style="width: 100%; height: 25px; text-align: center;" type="text" value="0098"/>
		EVALUATION <input style="width: 100%; height: 25px; text-align: center;" type="text" value="0100"/>