



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

**AGRICULTURAL RESOURCE MANAGEMENT STUDY  
WINTER WHEAT PRODUCTION  
PRACTICES REPORT  
for 1999**

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

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

VERSION <b>07</b>	POID _____	TRACT <b>00</b>	SUBTRACT _____	T-TYPE <b>0</b>	TABLE <b>000</b>	LINE <b>00</b>
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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 winter wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Winter Wheat 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.

1135

**BEGINNING TIME** [MILITARY] **H H M M**  
0004  
\_\_\_\_\_

**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

# WINTER WHEAT FIELD SELECTION

1. How many acres of winter wheat 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 winter wheat 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) winter wheat 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).

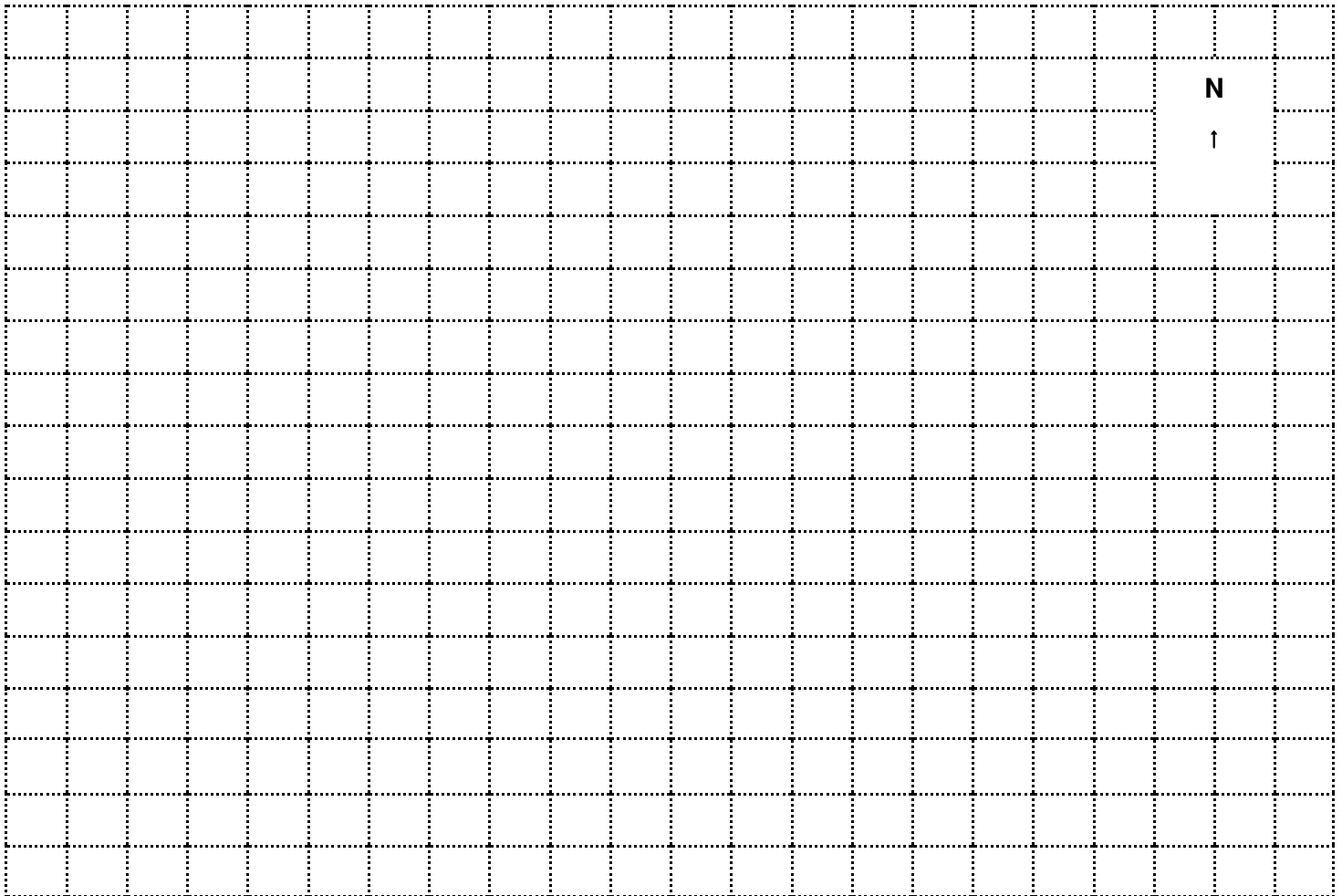
During this interview, the winter wheat questions will be about this selected winter wheat field.

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

OFFICE USE OY Field Substituted

0022

**Field Selection Grid**



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

1. How many acres of winter wheat did this operation plant in this field for the 1999 crop? ..... ACRES  
1135

4. On what date was this field planted? ..... MM DD YY  
1142

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=BUSHEL  
25=KERNELS/SEEDS  
UNITS PER ACRE  
1144                      1145

7. Was the source of the winter wheat seed-- 1 Purchased?  
2 Homegrown or traded?  
3 Both? ..... CODE  
1148

10. Has harvest of this field been completed? ..... YES = 1 CODE  
1152

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

	1		2		3
<b>How many acres in the winter wheat field were (will be)--</b>	<b>ACRES</b>		<b>What yield per acre did you get (do you expect to get) for--</b>	<b>UNITS PER ACRE</b>	<b>UNIT CODES</b> 1=POUNDS 2=CWT 3=TONS 4=BUSHEL
	a. harvested for grain? .....	1153	. ____		1154
b. harvested for silage or green chop? .....	1156	. ____		1157	<b>TONS</b>
c. harvested for seed for planting? .....	1158	. ____		1159	1160
d. abandoned? .....	1161	. ____			
e. used for some other purpose? .....	1162	. ____			

f. [If wheat harvested for grain or seed, ask--] What was the test weight of the wheat harvested for grain (seed)? ..... POUNDS PER BUSHEL  
1163

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

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

CODE	EDIT TABLE
1201	0201

4. 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 1998 and those applied earlier if this field was fallow in 1998	<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	4	5	6	7
	N Nitrogen	P <sub>2</sub> O <sub>5</sub> Phosphate	K <sub>2</sub> O Potash	What quantity was applied per acre? <small>[Leave this column blank if actual nutrients were reported.]</small>	<small>[Enter material code.]</small> 1 Pounds 12 Gallons 19 Pounds of actual nutrients	When was this applied? 1 Before seeding (fall) 2 Before seeding (spring) 3 At seeding 4 After seeding	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/Sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	How many acres were treated in this application?  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 C**

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

9. Was a **soil test** performed on this field in 1998 or 1999 for the 1999 winter wheat crop? ..... YES = 1
10. Was a **plant tissue test** performed on this field in 1998 or 1999 for the 1999 winter wheat crop? ..... YES = 1
11. **Is lime ever applied to this field?** ..... YES = 1
- a. *[If lime applied, ask--]*
- On average, how many years are there between applications of **lime** to this field? .....
- b. *[If lime applied, ask--]*
- How many tons of **lime** were applied per acre the last time it was applied to this field? .....
12. **Was sulfur applied to this field for the 1999 crop?** ..... YES = 1
- a. *[If sulfur applied, ask--]*
- How many pounds of sulfur were applied per acre? .....
13. **Was gypsum applied to this field for the 1999 crop?** ..... YES = 1
14. **Were micronutrients applied to this field for the 1999 crop?** ..... YES = 1
- a. *[If micronutrients applied, ask--]*
- Did the micronutrients include **zinc**? ..... YES = 1

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

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

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

**CODE**

1222

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

**ACRES**

1223

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

**TOTAL TONS**

1224

**OR** **TOTAL GALLONS**

1225

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**

1226

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**

1227

e. Was the manure--

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

**CODE**

1228

16. Was manure applied to this field AFTER harvest of the 1999 wheat crop? .....

**CODE**

1229

YES = 1

**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 winter wheat crop.

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

CODE	EDIT TABLE
1230	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		
INCLUDE		EXCLUDE
<input type="checkbox"/> Defoliant	<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 ( <i>Aerial application</i> )	8 Foliar or directed spray
4 In seed furrow	9 Spot treatment
5 In Irrigation water	



LINE	9 How was this product applied? <small>[Enter code from above.]</small>	10 How many acres in this field were treated with this product?  ACRES	11 What was the number of times applied?  NUMBER	12 What was the PRIMARY target pest for this application? <small>[Show Target Pest codes from Respondent Booklet.]</small>	13 This year, was the problem of this pest-- <small>1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?</small>	14 Were these applications made by-- <small>1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee / Other?</small>
	01	0311	0312 .__	0313	0314	0315
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 winter wheat crop. By pests, we mean WEEDS, INSECTS and DISEASES.
- Let's begin with questions about scouting this field for pests.

<b>1</b>		<b>②</b> [If YES, ask--] <b>Who did the majority of the scouting for [column 1]--</b> 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? <b>CODE</b>
<b>Was this winter wheat field scouted for--</b>	<b>YES=1</b>	
a. weeds? .....	1231	1232
b. insects? .....	1233	1234
c. diseases? .....	1235	1236

- [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

<b>CODE</b> 1237
---------------------

**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 winter wheat field BEFORE weeds emerged? YES = 1

CODE

1238

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 winter wheat field based on--

a. a routine treatment for weed problems experienced in previous years? YES = 1

1239

b. field mapping of previous weed problems? YES = 1

1240

c. recommendations from a chemical dealer? YES = 1

1241

d. recommendations from an independent crop consultant? YES = 1

1242

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

1243

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 winter wheat field based on--

a. a routine treatment? YES = 1

1244

b. type and/or density of weed(s) present? YES = 1

1245

c. recommendations from a chemical dealer? YES = 1

1246

d. recommendations from an independent crop consultant? YES = 1

1247

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 winter wheat field based on--

a. a preventative schedule? YES = 1

1248

b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1

1249

c. standard practices or history of insect problems? YES = 1

1250

d. local information (from other farmers, radio, TV, newsletters, etc.) that the pest was or was not present? YES = 1

1251

e. your (the operator's) own determination of the infestation level? YES = 1

1252

**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	1253
12. Did you use any beneficial organisms to control pests in this field? ..... YES = 1	1254
13. Did you use water management practices, such as controlled drainage or irrigation scheduling to control pests in this field? [Exclude chemigation.] ..... YES = 1	1255
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	1256
15. Did you clean equipment and implements after completing field work to reduce the spread of pests from this field? ..... YES = 1	1257
17. Did you consider pest resistance when selecting which variety to plant in this field? ..... YES = 1	1259
18. Did you treat the seed used in this field for disease control? ..... YES = 1	1260
19. Did you adjust planting or harvesting dates to control pests? ..... YES = 1	1261
20. Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field? ..... YES = 1	1262
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	1263
22. Did you adjust row spacing or plant density to control pests in this field? ..... YES = 1	1264
23. Did you rotate crops on this field during the past 3 years to control pests? ..... YES = 1	1265
25. Were (was) grazing dates adjusted on this field to reduce or help control pests? ..... YES = 1	1268
26. Did you do any other type(s) of pest management to control pests in this field? ..... YES = 1	1269
a. [If YES, ask--]	
What did you do? [List other activities.]	
_____ .....	1270
_____ .....	1271
_____ .....	1272

**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 winter wheat 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.]

1273

**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

CODE

- 4. **Was there (will there be) a yield monitor on the equipment used to harvest this winter wheat 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

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**NOTES and CALCULATIONS:**

# CONCLUSION

## LOCATION OF SELECTED FIELD

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

What county is the selected winter wheat field in? .....

COUNTY NAME

OFFICE USE--  
COUNTY FIPS CODE

0010

2. [ENUMERATOR ACTION:

Mark map to indicate where the selected winter wheat 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?

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

CODE

0099

## RECORDS USE

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

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

0011

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

0012

## SUPPLEMENTS USED

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

FERTILIZER  
APPLICATIONS

0041

PESTICIDE  
APPLICATIONS

0042

NUMBER

## RESPONDENT

- 1 OPERATOR/MANAGER/PARTNER
- 2 SPOUSE
- 3 ACCOUNTANT/BOOKKEEPER
- 4 OTHER

CODE

0101

Respondent's name  
[if code 3 or 4] .....

Phone ..... ( ) .....

MILITARY TIME  
H H M M

0005

ENDING TIME [MILITARY] .....

MM DD YY

0007

DATE: .....

99

ENUMERATOR ID

0098

ENUMERATOR NAME .....

EVALUATION

0100