



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

**AGRICULTURAL RESOURCE MANAGEMENT SURVEY  
SPRING WHEAT PRODUCTION  
PRACTICES AND COSTS REPORT  
for 2004**

Form Approved  
OMB Number 0535-0218  
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Project code 906  
Phase II

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<b>VERSION</b>	<b>ID</b>	<b>TRACT</b>	<b>SUBTRACT</b>	<b>T-TYPE</b>	<b>TABLE</b>	<b>LINE</b>
<b>33</b>		<b>01</b>		<b>0</b>	<b>000</b>	<b>00</b>

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 and costs to produce spring wheat (other than durum) and need your help to make the information as accurate as possible. Authority for collection of information on the Spring Wheat 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.

**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.]**

0014	<b>CEAP Match</b>	0016	<b>CEAP ID</b>

**OFFICE USE**

Completion Code 0008  
3 = Zero Target

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

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

1. How many acres of wheat (winter, durum and other spring) did this operation plant for the 2004 crop year?

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

TOTAL PLANTED ACRES

0050	_____
------	-------

Of the total (item 1), how many were planted for--

- a. Winter wheat? .....
- b. Durum wheat? .....
- c. Other Spring wheat? .....

TOTAL ACRES

0051	_____
0052	_____
0053	_____

2. I will follow a simple procedure to make a random selection from the spring wheat (other than durum) fields planted for the 2004 crop.

- ▶ [If no spring wheat (other than durum) acres planted, item 1c is zero, review Screening Survey Information Form. Make notes, then go to item 4 on back page.]

What is the TOTAL number of spring wheat (other than durum) fields that were planted on this operation? .....

TOTAL NUMBER OF FIELDS PLANTED

0020
------

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

3. Please list these spring wheat (other than durum) fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

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

FIELD NAME, NUMBER OR DESCRIPTION

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 spring wheat (other than durum) questions will be about this selected field.**

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

OFFICE USE  
OY Field Substituted

0022

1. How many acres of spring wheat did this operation plant in this field for the 2004 crop? ..... ACRES  
1301

2. Were the acres in this field-- 
 1 owned by this operation?  
 2 rented for CASH with the payment being a fixed cash amount?  
 3 rented for CASH with the payment being a flexible cash amount?  
 4 rented for a SHARE of the crop?  
 5 rented for some combination of CASH and SHARE of the crop?  
 6 used RENT FREE?
  CODE  
1302

3. [If field is CASH RENTED (item 2 = 2, 3 or 5), ask--]  
What was the cash rent paid per acre for this 2004 spring wheat field? ..... DOLLARS &  
CENTS PER ACRE  
1303  
                  . \_\_\_\_

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

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

7. On what date was this field planted? ..... MM DD YY  
1308  
                  \_\_\_\_

a. When planted, was this wheat field planted with the intention of -- (Include wheat planted for commercial seed contract under other uses.) ..... 
 1 Dual purpose (grain and grazing)?  
 2 Harvesting for grain only?  
 3 Grazing only?  
 4 Cover crop?  
 5 Other uses --- specify \_\_\_\_\_
  CODE  
1309

8. Was the wheat in this field planted with the intention of being harvested as organic wheat? ..... YES = 1 CODE  
1306

10. What was the seeding rate per acre the first time this field was planted? ..... UNITS PER ACRE  
1310  
                  . \_\_\_\_ UNIT CODES  
for Seeding Rate  
1 = POUNDS  
2 = CWT  
3 = TONS  
4 = BUSHELS  
23 = 50 LB BAGS  
1311

11. **How many acres in this field had to be replanted to spring wheat?** ACRES  
*(Number of acres times the number of times replanted).* ..... 1318

12. **Was the source of the spring wheat seed--**..... CODE  

1	Purchased?
2	Homegrown or traded?
3	Both?

..... 1319

b. *[If item 12 = 2 or 3, ask--]*  
 How much of the spring wheat seed planted in this field was grown  
*(or received in trade)* by this operation. .... PERCENT  
 1320

(1) What was the cost per bushel for cleaning and treating this seed?..... DOLLARS & CENTS PER BUSHEL  
 1321

13. *[If any seed purchased (item 12 = 1 or 3), ask --]*  
UNIT CODES  
 1 = POUNDS  
 2 = CWT  
 3 = TONS  
 4 = BUSHEL  
 22 = ACRE  
 23 = 50 LB BAGS  
DOLLARS & CENTS PER UNIT  
**What was the total cost per unit (including both your and the landlord's share) of purchased seed for this field? (Include cost of seed treatment).** .....  
 1429 ..... 1430

14. **In 2004, did you plant a NON Genetically – modified (GM) herbicide resistant wheat (such as Clearfield) seed variety on this field?**..... CODE  
 YES = 1 1316

a. *If YES, ask*  
 Did you choose the NON GM herbicide resistant wheat primarily to--- ..... CODE  

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

..... 1317

15. **If a genetically – modified herbicide resistant (such as Roundup – Ready) wheat seed becomes available, how likely would you be to plant it on this field under the following conditions?** CODES  
*Assume that the total cost of the seed (including technology fee) changes based on the following information---*  
 1 = Very likely to plant  
 2 = Somewhat likely to plant  
 3 = Uncertain  
 4 = Somewhat unlikely to plant  
 5 = Very unlikely to plant

a. 10 percent seed cost increase.....	1322
b. 20 percent seed cost increase.....	1323
c. 30 percent seed cost increase.....	1324
d. seed cost does not increase.....	1325

16. **Has harvest of this field been completed?**..... CODE  
 YES = 1 1343

## NOTES

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

How many acres in the spring wheat field were (will be)--	1		2
	ACRES	UNITS PER ACRE	UNIT CODES
a. harvested for grain?.....	1346	1347	1348
b. harvested for silage or green chop?.....	1349	1350	TONS
c. harvested for commercial seed contract?.....	1431	1432	1433
d. abandoned?.....	1351		

18. Was straw harvested from this field?

YES - [Enter code 1 and continue.]

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

CODE

1354

ACRES

1355

19. How many acres of spring wheat straw were harvested from this field?.....

a. How many tons of spring wheat straw were harvested from this (item 19) acres?.....

TOTAL TONS

1356

$\frac{\text{Tons per Acre}}{\text{Acres}} \times \text{Acres} = \text{Total Tons}$  OR  $\frac{\text{Bales}}{\text{Lbs per Bales}} \times \frac{2000}{\text{Lbs per Ton}} = \text{Total Tons}$ .....

PERCENT OR

TONS

b. Of the total spring wheat straw harvested from this field (item 19a), what was the landlord's share of the wheat straw?.....

1357

1358

TOTAL DOLLARS

c. What was the total cost of baler twine/wire used to bale the spring wheat straw from this field? (Include landlord's share.).....

1359

d. [If any spring wheat straw was sold, ask---]

What was the price received per ton for all spring wheat straw (item 19a) sold from this field?.....

1360

DOLLARS & CENTS PER TON

20. What type of livestock grazed this wheat field BEFORE wheat harvest?.....

- 1 Cattle
- 2 Sheep
- 3 Other, specify \_\_\_\_\_
- 4 Livestock did NOT graze this Wheat field -Go to item 21.

CODE

1361

HEAD

a. Regardless of ownership, about how many head of (livestock, item 20) grazed this 2004 spring wheat crop?.....

1362

DAYS

b. How many days did these livestock graze on this 2004 wheat crop?.....

1363

c. [If livestock NOT owned by this operator grazed on this field, ask---]

DOLLARS & CENTS PER ACRE

OR

TOTAL DOLLARS

What is the total dollar amount received from others for Livestock grazing on this field? (Include landlord's share.).....

1364

1365

**CROP CODE LIST for item 21  
PREVIOUSLY PLANTED CROP was---**

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

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

<sup>1</sup> What crop was PLANTED on this field in---			<sup>2</sup> Was this crop irrigated	<sup>3</sup> Was this crop no-tilled ? 1/
	CROP NAME	CROP CODE	YES = 1	YES = 1
a. FALL of 2003?.....		1366	1367	1368
b. SPRING/SUMMER of 2003?.....		1369	1370	1371
c. FALL of 2002.....		1372	1373	1374
d. SPRING/SUMMER of 2002?.....		1375	1376	1377
e. FALL of 2001?.....		1378	1379	1380
f. SPRING/SUMMER of 2001?.....		1381	1382	1383

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

22. In 2004, did your land-use practices for this field include---

	CODE
a. terraces?..... YES = 1	1384
b. temporary or permanent levees?..... YES = 1	1388
c. grassed waterways?..... YES = 1	1392
d. filter strips or riparian buffers on or adjoining the field?..... YES = 1	1396
e. contour farming?..... YES = 1	1400
f. strip cropping?..... YES = 1	1401
g. underground outlets such as tile drainage?..... YES = 1	1402
h. other drainage channels or diversions?..... YES = 1	1403



		CODE
23. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"?	YES = 1	1404
24. Have you been notified by NRCS that this field contains a wetland?	YES = 1	1405
25. In 2004, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field? (Include grassed waterways and filter strips or riparian buffers on or adjoining this field. Include assistance from any source whether paid for or free.)	YES = 1	1406
26. In 2004, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field [Be sure to consider grassed waterways and filter strips or riparian buffers on or adjoining this field.]? (Include payments received from any source by either the owner or operator. Exclude rental payments for keeping the land in these practices.)	YES = 1	1407

27. During 2004, did any written plan of the following types cover this field and if so, in what year was the plan implemented? (A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)	CODE	YEAR IMPLEMENTED
a. Conservation plan specifying practices to reduce soil erosion? YES = 1	1408	1409 _____
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? YES = 1	1410	1411 _____
c. Nutrient management plan specifying for land application of manure only? YES = 1	1412	1413 _____
d. Pest management plan specifying pesticide use and/or other practices controlling weeds, insects, or plant disease? YES = 1	1414	1415 _____
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? YES = 1	1416	1417 _____

[If items 27a, b, c, d, or e = YES, ask--]

		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
28. During 2004, did you pay any technical service provider or consultant to develop or write any of these plans which included this field?	YES = 1			1418
a. [If YES, ask--] What was the cost for developing these plans for this field? (Include landlord's/contractor's share. Exclude cost of construction or materials.)		1419 _____		1420

29. Was the spring wheat crop on this field covered by Crop Insurance in 2004?		CODE
<input type="checkbox"/> YES - [Enter code 1 and continue.]	YES = 1	1421
<input type="checkbox"/> NO - [Go to Section C.]		
If YES, which coverages did you obtain? [Enter code for all that apply.]		
a. Basic catastrophic insurance (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the price.	YES = 1	1422
b. Buy-up on Basic Federal CAT for higher levels of yield and price protection (such as 65% of yield and 100% price, multi peril crop insurance).	YES = 1	1423
c. Revenue Insurance include income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance(RA).	YES = 1	1424
d. Other Federal Crop Insurance (Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.)	YES = 1	1425
e. Other Private Crop Insurance (Hail, wind, freeze, etc.)	YES = 1	1426

1. Were commercial FERTILIZERS applied to this field for the 2004 spring wheat crop?

	CODE	EDIT TABLE
YES = 1	0202	0201

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

3. How many commercial fertilizer applications were made to this field for the 2004 crop?  
*(Include applications made by airplanes and commercial applicators).* . . . . .

NUMBER
0203

4. Now I need to record information for each application

CHECKLIST	
INCLUDE	EXCLUDE
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients
<input type="checkbox"/> Fertilizers applied in the fall of 2003 and those applied earlier if this field was fallow in 2003.	<input type="checkbox"/> Unprocessed manure
<input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Fertilizer applied to previous crops in this field
	<input type="checkbox"/> Lime and Gypsum/landplaster

	T-TYPE	TABLE
	2	001
Line 99	Office Use Lines in Table	0213

LINE	2 MATERIALS USED			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	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	P2O5 Phosphate	K2O Potash						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

5. Was sulfur applied to this field for the 2004 spring wheat crop? CODE  
*(Include direct applications and sulfur applied as a component of a fertilizer applications.)* ..... YES = 1 0216  
 a. *[If sulfur applied, ask--]*  
 How many pounds of sulfur were applied per acre? ..... POUNDS PER ACRE  
0217

6. Was gypsum applied to this field for the 2004 spring wheat crop? ..... YES = 1 CODE  
0218

7. Were any fertilizers applied by custom applicators?  
 YES - *[Continue.]*                       NO - *[Go to item 8.]*

a. Are you able to report the cost of fertilizer materials and custom application separately?  
 YES - *[Continue.]*                       NO - *[Go to item 8.]* OFFICE USE  
0215

b. Excluding the cost of the fertilizer materials, how much was spent for custom application of fertilizers on this field?  
*(Include landlord and contractor costs.*  
*Exclude custom application of lime, gypsum, & purchased manure.)*  
*[If material and application costs can't be separated, exclude them here and record the total in item 8.]*.....

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0219		0220

8. What was the TOTAL COST of all fertilizer products applied to this field? ..... DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS  
0221 0222  
*(Include landlord and contractor costs.*  
*Exclude lime, gypsum, & 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 2003.]*

*[If planted with the intention of harvesting for grain (item B7a = 1 or 2), ask---]* BUSHELS PER ACRE  
 9. What was your yield goal at planting for this field? ..... 0223

10. Was a soil or plant tissue test performed on this spring wheat field in 2003 or 2004 for the 2004 crop?  
 YES *[Continue.]*                       NO *[Go to item 15.]*

11. Was a soil test for phosphorus performed on this spring wheat field in 2003 or 2004 for the 2004 crop? ..... YES = 1 CODE  
0225  
 a. *[If phosphorus test done, ask---]*  
 How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)? ..... POUNDS PER ACRE  
0226

12. Was a soil test for nitrogen performed on this spring wheat field in 2003 or 2004 for the 2004 crop? ..... YES = 1 CODE  
0227  
 a. *[If nitrogen test done, ask---]*  
 How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)? ..... POUNDS PER ACRE  
0228

13. Was a plant tissue test for nutrient deficiency performed on this field in 2003 or 2004 for the 2004 spring wheat crop? ..... YES = 1

CODE  
0229

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

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0230 _____			0231 _____

a. If tests were done at no cost explain---

<ol style="list-style-type: none"> <li>1 Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service.</li> <li>2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 8.</li> <li>3 Some other reason.</li> </ol>	<p style="text-align: center;">CODE</p> <p>0232</p>
--	---

15. [Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 16 and 17. If NO nitrogen applied, go to item 18.]

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

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

17. 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

CODE  
0241

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

CODE  
0242

a. [If no lime applied, go to item 19---else continue.]

YEARS

On average, how many years are there between applications of lime to this field? ..... 0243

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

TONS PER ACRE

c. [If rented, ask---]

Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)? ..... 0245

PERCENT

19. Was manure applied to this field for the 2004 spring wheat crop?

(Exclude commercially prepared manure.)

YES - [Enter code 1 and continue.]

NO - [Go to Section D.]

CODE

0246

ACRES

0247

a. How many acres was manure applied to?

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

- 1 TONS
- 2 GALLONS
- 3 BUSHELS

CODE

0248

UNITS PER ACRE

0249

TOTAL UNITS

0250

AND

OR

MILES

0251

c. What is the distance between the manure storage/production location and the manured field?

d. What was the capacity of the manure spreader used to apply manure to this field?

- 1 TONS
- 2 GALLONS
- 3 BUSHELS

CODE

0252

TOTAL UNITS

0253

AND

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

PERCENT

(1) in the fall before planting?

+

0254

(2) in the spring before planting?

+

0255

(3) after planting?

+

0256

100%

f. Was the manure---

- 1 Lagoon liquid?
- 2 Slurry liquid?
- 3 Semi - dry or dry?

CODE

0257

g. Was the manure----

- 1 Broadcast or sprayed *without* incorporation?
- 2 Broadcast or sprayed *with* incorporation?
- 3 Injected/knifed in?
- 4 Sprayed using irrigation systems?

CODE

0258

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

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

CODE

0259

i. Was the manure---

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

CODE

0260

**CODE**

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

0261
------

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

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

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

0262
------

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

0263
------

## NOTES

Now I have some questions about all the pesticides used on this field for the 2004 spring wheat crop including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other chemicals used on the spring wheat field for the 2004 crop? YES = 1

CODE	EDIT TABLE
0302	0301

[Probe for applications made in the fall of 2003 (and those made earlier if this field was fallow).]  
[If no pesticides applied, go to Section E.]

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

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

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

CHEMICAL PRODUCT NAME	LINE	2 What products were applied to this field? <i>[Show product codes from Respondent Booklet.]</i>	3 Was this product bought in liquid or dry form? <i>[Enter L or D]</i>	4 Was this part of a tank mix? <i>[If tank mix, enter line number of first product in mix.]</i>	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	6 OR 7		8 <i>[Enter unit code.]</i> 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry 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
	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 Trade name And Formulation	Form Purchased (Liquid or Dry)	Where Purchased [ASK only if EPA No. cannot be reported.]



**APPLICATIONS 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 treatments              |
| 5 In Irrigation water                             |                                |

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



[If column 9 = 9, then column 6 and column 10 must be blank]

9                      10                      11                      12					OPTIONAL ITEM 4 What was the cost per unit of the product?			
L I N E	How was this product applied? [Enter code from above.]	How many acres in this field were treated with this product?  ACRES	How many times was it applied?  NUMBER	Were these applications made by— 1 Operator, Partner or family member? 2 Custom applicator? 3 Employee/Other?	DOLLARS and CENTS PER UNIT	UNIT CODE		
						1 Pounds 12 Gallons 13 Quarts 14 Pints	15 Liquid Ounces 28 Dry Ounces 30 Grams	
01	0311	0312	0313	0316	0317	0318		
02	0311	0312	0313	0316	0317	0318		
03	0311	0312	0313	0316	0317	0318		
04	0311	0312	0313	0316	0317	0318		
05	0311	0312	0313	0316	0317	0318		
06	0311	0312	0313	0316	0317	0318		
07	0311	0312	0313	0316	0317	0318		
08	0311	0312	0313	0316	0317	0318		
09	0311	0312	0313	0316	0317	0318		
10	0311	0312	0313	0316	0317	0318		
11	0311	0312	0313	0316	0317	0318		
12	0311	0312	0313	0316	0317	0318		
13	0311	0312	0313	0316	0317	0318		
14	0311	0312	0313	0316	0317	0318		

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

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

**OFFICE USE**

0324
------

a. Are you able to report the cost of chemical product and custom application separately?

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

b. Excluding the cost of the chemical product, how much was spent for custom application of chemicals and pesticides on this field?  
*(Include operator and landlord cost.)* .....

**DOLLAR & CENTS  
PER ACRE**

**OR TOTAL DOLLARS**

0331 _____
---------------

0332
------

**DOLLAR & CENTS  
PER ACRE**

**OR TOTAL DOLLARS**

0334 _____
---------------

0335
------

4. **What was the TOTAL COST of all chemical products applied to this field?** .....

**Include** operator and landlord cost, defoliant, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2003 fallow period.

**Exclude** seed treatments

**NOTE 1:** If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Pesticide Table, item D1.

**NOTE 2:** For custom applications. If respondent cannot report cost of chemical product separately from application costs, report both in item 4.

Now I have some questions about your pest management decisions and practices used on this field for the 2004 spring wheat crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

1. [Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]

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

		CODE
2.	Was weather data used to assist in determining either the need or when to make pesticide applications?..... YES = 1	0800
3.	Were any biological pesticides such as Bt ( <i>Bacillus thuringiensis</i> ), insect growth regulators neem or other natural/biological based products sprayed or applied to manage pests in this field?..... YES = 1	0801
4.	Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?..... YES = 1	802

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

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

		CODE						
6.	Were herbicides applied to this spring wheat field BEFORE weeds emerged? [If item 6 = YES, ask---]..... YES = 1	0803						
a.	Were the herbicides applied BEFORE weeds emerged on this spring wheat field based primarily on--- <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>routine treatments of what <b>weeds</b> are usually present?</td> </tr> <tr> <td colspan="2" style="text-align: center;">OR</td> </tr> <tr> <td>2</td> <td>weed scouting from the previous year?</td> </tr> </table>	1	routine treatments of what <b>weeds</b> are usually present?	OR		2	weed scouting from the previous year?	0804
1	routine treatments of what <b>weeds</b> are usually present?							
OR								
2	weed scouting from the previous year?							
7.	Were herbicides applied to this spring wheat field AFTER weeds emerged? [If item 7 = YES, ask---]..... YES = 1	0805						
a.	Were the herbicides applied AFTER weeds emerged on this spring wheat field based primarily on--- <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>routine treatments of what <b>weeds</b> are usually present?</td> </tr> <tr> <td colspan="2" style="text-align: center;">OR</td> </tr> <tr> <td>2</td> <td>weed scouting from the current year?</td> </tr> </table>	1	routine treatments of what <b>weeds</b> are usually present?	OR		2	weed scouting from the current year?	0806
1	routine treatments of what <b>weeds</b> are usually present?							
OR								
2	weed scouting from the current year?							

8. [Enumeration Action: Were INSECTICIDES used (pesticide product codes 1000 – 1999), in Section D, item 1, column 2?]

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

		CODE						
9.	Were the insecticides applied to this spring wheat field based primarily on--- <table border="1" style="margin-left: 20px;"> <tr> <td>1</td> <td>routine treatments of what <b>insects</b> are usually present?</td> </tr> <tr> <td colspan="2" style="text-align: center;">OR</td> </tr> <tr> <td>2</td> <td>scouting for insect infestation?</td> </tr> </table>	1	routine treatments of what <b>insects</b> are usually present?	OR		2	scouting for insect infestation?	0807
1	routine treatments of what <b>insects</b> are usually present?							
OR								
2	scouting for insect infestation?							

10. In 2004, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms---

1	By conducting general observations while performing routine tasks? [Enter code 1 and go to item 13.]	0808
2	By deliberately going to the field specifically for scouting activities? [Enter code 2 and go to item 11.]	
3	This field was not scouted. [Enter code 3 and go to item 18.]	

CODE

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

YES = 1

CODE

0809

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

a. a pest advisory warning?..... YES = 1

b. a pest development model?..... YES = 1

CODE

0810

0811

1	2	3
	[If YES, ask---] Was the infestation level for [column 1]—	[If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]---
	1 Worse than normal 2 Normal 3 Less than normal	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout
	YES = 1 CODE	CODE
13. Was this spring wheat field scouted for--		
a. weeds?.....	0812	0813
b. insects or mites?.....	0815	0816
c. diseases?.....	0818	0819
		0814
		0817
		0820

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

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

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	0821		0822

a. [Note: If scouting performed at no cost, explain: \_\_\_\_\_]

OFFICE USE

0333

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

16. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field?..... YES = 1

17. Was field mapping data used for making weed management decisions on this field?..... YES = 1

CODE

0823

0824

0825

18. Were the services of a diagnostic laboratory used for pest identification or soil plant tissue pest analysis for this field?.....	YES = 1	0826
19. Were crop residues plowed down or removed in this field to manage pests?.....	YES = 1	0828
20. Were crops rotated in this field during the past 3 years for the purpose of managing pest problems?.....	YES = 1	0829
21. Were ground covers, mulches or other physical barriers maintained for this field to manage pest problems?.....	YES = 1	0830
22. Was a crop variety chosen to plant in this field because it had resistance to a specific pest?.....	YES = 1	0831
23. Was no-till or minimum till used to manage pests in this field?.....	YES = 1	0832
24. Were planting locations planned to avoid cross infestation of pests?.....	YES = 1	0833
25. Were planting or harvesting dates adjusted for this field to manage pests?.....	YES = 1	0834
31. Were field edges, lanes, ditches, roadways or fence lines chopped, mowed, plowed, or burned to manage pests for this field?.....	YES = 1	0843
32. Were equipment and implements cleaned after completing field work to reduce the spread of pests?.....	YES = 1	0844

**PEST MANAGEMENT INFORMATION**

33. [ Show Pest Management Information Sources Code List from Respondent Booklet.]

**Which outside sources of information on pest management practices and products were used for the 2004 spring wheat crop?**

*(Starting with the most influential in determining the pest management practices used on this operation, enter code(s) for up to 3 sources.)*

**PEST MANAGEMENT INFORMATION SOURCES CODE LIST**

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

[Enter up to 3 source codes.]

**FIRST**

0845

**SECOND**

0846

**THIRD**

0847

**CODE**

0848

34. **Other than pesticide applicator training, have you (*the operator*) attended any training session on pest identification and management since October 1, 2003?..... YES = 1**

Completion Code for Pest Management Data	
1- Incomplete/Refusal	0340

1. Now I need to list all tractors used to produce spring wheat on this selected field.

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

1	2 What tractors were used on this field  MAKE and MODEL	3 What was the model year (Example: 2004)  YEAR	4 Is this vehicle a--- 2 2-wheel drive tractor 3 2-wheel drive tractor with front wheel assist 4 4-wheel drive tractor 5 crawler or other tracked-tractor 6 other tractor  CODE	5 What is its PTO Horsepower  PTO HORSEPOWER	6 Is it--- 1 diesel 2 gasoline 3 LP gas 9 other  CODE
1		0120 _____	0121	0122	0123
2		0124 _____	0125	0126	0127
3		0128 _____	0129	0130	0131
4		0132 _____	0133	0134	0135
5		0136 _____	0137	0138	0139
6		0140 _____	0141	0142	0143
7		0144 _____	0145	0146	0147
8		0148 _____	0149	0150	0151
9		0152 _____	0153	0154	0155
10		0156 _____	0157	0158	0159

2. Was a self-propelled harvester and/or swather used to harvest the spring wheat field?

- YES - [Continue.]                       NO - [If NO, go to 2c.]

[If item 2 = YES, ask---]

a. What is the model year of the self-propelled harvester(s) used to harvest spring wheat from this field? (Report the average year if more than one was used.)

YEAR

0849 _____
---------------

b. What is the model year of the self-propelled swather(s) used to harvest spring wheat from this field? (Report the average year if more than one was used.)

YEAR

0850 _____
---------------

c. Did you use a defoliant in place of a swather to harvest the spring wheat from this field?

CODE

0851 YES = 1
-----------------

3. Including custom operations, I need to list field work performed by machines on this field for the 2004 spring wheat crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 2003, list operations starting with fall 2002.)
- ▶ List the operations in order through harvest and hauling of this crop to storage or first point of sale, and
- ▶ Maintain the order of tandem hook-ups.

CODES FOR COLUMN 5	
1	You (The Operator)?
2	Partner?
3	Unpaid Worker?
4	Paid Part-time or Seasonal Worker?
5	Paid Full-time Worker
6	Custom Applicator?---[Go to Column 11.]

**CHECK LIST**  
Include all field work using machines for---

Land Forming/Levee Building

Tillage

Preparing for Irrigation

Planting

Fertilizer & Pesticide applications

Harvesting & Hauling wheat and wheat straw to storage or first point of sale

**Exclude**

Lime & Gypsum/landplaster applications

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

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

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

OFFICE USE

0032



4. I need some information about the additional labor, other than the labor just reported operating machines, that worked on this field.

Please report the paid and unpaid labor that worked on this field to produce the 2004 spring wheat crop.

TYPE OF WORKERS	How many hours did (type of worker) <sup>1</sup> spend on this field---		
	a. scouting for weeds and insects?	b. irrigating	c. for overhead activities (moving and loading inputs, manual operations, overseeing hired labor, bookkeeping and other management activities)
	HOURS	HOURS	HOURS
Operator, partners, family members and other unpaid workers.....	1100	1101	1103
Full-time hired workers (Exclude custom and contract labor).....	1105	1106	1108
Part-time or seasonal hired workers (Exclude custom and contract labor).....	1110	1111	1113

5. What was the average hourly wage rate paid to full-time hired workers?  
(Exclude custom and contract workers, payroll taxes and benefits.).....
- DOLLARS & CENTS  
PER HOUR
- 1114 . \_\_\_\_
6. What was the average hourly wage rate paid to part-time or seasonal hired workers?  
(Exclude custom and contract workers, payroll taxes and benefits.).....
- DOLLARS & CENTS  
PER HOUR
- 1115 . \_\_\_\_
7. Was any contract labor used on this field?..... YES = 1
- CODE
- 1116
- a. If YES, ask – What was the average cost per acre for this contract labor?  
(Include landlord and contractor costs.).....
- DOLLARS & CENTS  
PER ACRE
- 1117 . \_\_\_\_
8. What percent of the total hours worked on this field by UNPAID workers was worked by children under 16 years old?.....
- PERCENT
- 1118

9. Now I need some information on how much was spent for custom services used on this field for the 2004 spring wheat crop.

1	2
CUSTOM SERVICE	Including landlord's/contractor's cost, how much was spent for [column 1] on this field for the 2004 spring wheat crop?
Which of these services were done for the 2004 spring wheat crop on this field?	DOLLARS & CENTS PER ACRE
√ [Check √ box for each service performed; refer to item F3 if necessary.]	
<input type="checkbox"/> a. custom land preparation, shaping and/or leveling? .....	1119 .__ __
<input type="checkbox"/> b. custom cultivating? .....	1120 .__ __
<input type="checkbox"/> c. custom planting and/or reseeding? .....	1121 .__ __
<input type="checkbox"/> d. custom harvesting? .....	1122 .__ __
f. custom hauling to storage or point of first sale? .....	1126
( <u>      </u> X <u>      </u> ÷ <u>      </u> = <u>      </u> Dollars & Cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.)	.__ __
g. harvesting and hauling from field to storage or point of first sale? .....	1127
( <u>      </u> X <u>      </u> ÷ <u>      </u> = <u>      </u> Dollars & Cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.)	.__ __
h. custom raking, baling, and hauling the straw from this field? .....	1128
( <u>      </u> X <u>      </u> ÷ <u>      </u> = <u>      </u> Dollars & Cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.)	.__ __

10. Did you hire any technical or consultant services to make recommendations for this field? (such as for nutrient, pest control, irrigation, or precision farming recommendations)

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

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

11. If YES to any of these services, what was the cost for all of these services?

(Include landlord/contractor cost. Exclude cost of soil/tissue tests or scouting cost reported earlier.

Do not report costs for any of these services if they were reported as part of the costs of materials and/or application costs previously.) .....

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

		CODE
12. <b>Was there (will there be) a yield monitor on the equipment used to harvest this spring wheat field?</b> .....	YES = 1	1138
[If YES, continue; else go to item 13.]		
a. Was there (will there be) a yield map produced from this harvest using information from the yield monitor?.....	YES = 1	1139
b. Did you use the yield monitor information to--- [Enter code for all that apply.]		
(1) monitor crop moisture content to determine need for crop drying?.....	YES = 1	1140
(2) add/improve tile drainage?.....	YES = 1	1141
(3) add/improve irrigation equipment/irrigation water application?.....	YES = 1	1142
(4) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc)?.....	YES = 1	1143
(5) negotiate new crop leases?.....	YES = 1	1144
(6) document yields for crop insurance, real estate tax, or farm program purposes?.....	YES = 1	1145
(7) accurately divide crop production among partners and/or for landlord crop shares?.....	YES = 1	1146
(8) other uses [specify _____]	YES = 1	1147
		CODE
13. <b>During 2003 or 2004, was a GPS (Global Positioning System) device used to geo-reference and/or produce a map of the soil properties of this field?</b> (such as soil nitrate levels, PH, etc.).....	YES = 1	1148
[If item 13 = YES, Ask 13a and 13b; else go to item 14.]		
a. Was a map (or will a map be) produced based on soil tests from this field?.....	YES = 1	1149
b. Was a map (or will a map be) produced based on a machine that measured electrical conductivity of the soil (e.g. Veris machine)?.....	YES = 1	1150
		CODE
14. <b>Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2004 growing season?</b> .....	YES = 1	1151
15. <b>Was a variable rate applicator (i.e., variable rate technology or VRT) used on this field for---</b>		
a. fertilization or liming?.....	YES = 1	1152
(1) If YES, ask---Did you use a variable rate applicator for--- [Enter code for all that apply.]		
a. nitrogen applications?.....	YES = 1	1153
b. phosphorus applications?.....	YES = 1	1154
c. potash applications?.....	YES = 1	1155
d. lime applications?.....	YES = 1	1156
e. manure applications?.....	YES = 1	1157
b. seeding?.....	YES = 1	1158
c. pesticide applications?.....	YES = 1	1159
		CODE
16. <b>Was a guidance or parallel swathing system (connected to G.P.S.) used with any machine operation on this field (e.g. light bar)?</b> .....	YES = 1	1212

ACRES

1. How many acres in this field were irrigated for the 2004 spring wheat crop?  
 [If none, go to Section H.].....

1160
------

2. Now, I have some questions about irrigation systems and water used on this field for the 2004 spring wheat crop.

↓	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was used to irrigate this field? [Show <b>System Type Codes</b> in the Respondent Booklet. Enter <b>System Type Code</b> for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1161	1175
b. What was the total quantity of water applied to this field during the entire growing season? [Include ALL water used from both on-farm and off-farm sources.].....	INCHES PER ACRE OR	1162	1176
	TOTAL ACRE -FEET	1163	1177
[If operator <b>cannot provide item 2b</b> , ask (1) & (2)---] (1) What is the <b>total</b> number of <b>hours</b> this system was used to apply water to this field during the spring wheat growing season?.....	TOTAL HOURS	1164	1178
(2) How many gallons per minute were applied?.....	GALLONS PER MINUTE	1165	1179
c. What percent of the water used to irrigate this field through this system came from surface water sources?.....	PERCENT	1166	1180
d. What was the number of times this field was irrigated during the spring wheat growing season using this system? [Include any pre-plant irrigation.]	NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [Enter code for most common pump type.] (If more than one pump in the system, enter type for pump closest to water source.)	CODE	1168	1182
	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP? [If code 99, go to item j.]		
f. What was the average pumping rate?.....	GALLONS PER MINUTE	1169	1183
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask---] What was the system operating pressure?.....	POUNDS PER SQUARE INCH	1170	1184
h. What was the primary motor type used to pump the water?	CODE	1171	1185
	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER		
i. What was the average motor size?.....	HORSEPOWER	1172	1186
j. [If NO PUMP was used (item e = 99), ask---] What was the average flow rate?.....	GALLONS PER MINUTE	1173	1187
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2004 growing season? [Exclude this field.]	ACRES	1174	1188

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

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

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

**CODE**

1189

**PERCENT**

1190

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

**DOLLARS & CENTS  
PER ACRE**

**OR**

**TOTAL DOLLARS**

b. What was the total cost for the water purchased for this field during the 2004 growing season?

*(Include landlord and contractor costs and ditch maintenance costs.)*

1191

1192

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

**TOTAL DOLLARS**

1193

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

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

**TOTAL DOLLARS**

**What was the total amount spent for poly pipe used on this field during the 2004 growing season?**

1194

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

**INCHES**

1195

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

**FEET**

1196

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

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

**CODE**

1197

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

**NUMBER**

1198

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

**INCHES**

1199

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

**FEET**

1200

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.]*

**CODE**

1201

d. Did this well(s) have a water meter or other flow measurement device? **YES = 1**

e. Were other fields irrigated using water pumped from well(s) that supplied water to the selected field?

**CODE**

1202

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

**ACRES**

1203

(1) How many other acres on this operation were irrigated using the same well(s) during the 2004 growing season? *(Excluding this 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 average diameter (*in inches*) of the most common type of this additional pipe used?.....

**INCHES**

1205
------

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

**FEET**

1206
------

<b>RUN-OFF CODES</b>	
1	retained at the end of the field?
2	re-used to irrigate on the farm?
3	collected in evaporation ponds on the farm?
4	drained from the farm?
5	there is no run off.

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

**CODE**

1207
------

10. **Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage for pests or aflatoxin?**..... **YES = 1**

1208
------

1. [If selected field RENTED (Section B, item 2), ask---, else go to Conclusion.]

**What was the total cost for all inputs provided by any landlord and contractor for the 2004 crop?**

*(Include the costs for all inputs, such as seed, fertilizer, chemicals technical services, custom operations, and irrigation.*

*(Exclude real estate tax expenses, drying, and lime costs paid by the landowner.) . . . . .*

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1209		1210
. _ _		

# CONCLUSION

## LOCATION OF SELECTED FIELD

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

What county is the selected spring wheat field in?

COUNTY NAME

OFFICE USE  
COUNTY FIPS  
CODE

0010

Field description.....

2. [ENUMERATOR ACTION:

*Mark map to indicate where the selected spring wheat field is located.  
Be sure the "X" marked on map is in county identified above.]*

3. We will need additional information to complete this study. We will contact you in February or March, 2005, to collect it. I'll call you then to set up a time that is good for you.

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

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

CODE

0099

## RECORDS USE

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

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

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

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

CODE

0011

0012

0013

## SUPPLEMENTS USED

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

FERTILIZER  
APPLICATIONS

0041

PESTICIDE  
APPLICATIONS

0042

FIELD  
OPERATIONS

0043

NUMBER

## RESPONDENT.....

Respondent's name  
[f code 3, 4, or 9].....

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

- 1 OPERATOR/MANAGER
- 2 SPOUSE
- 3 ACCOUNTANT/BOOKKEEPER
- 4 OTHER
- 8 OFFICE HOLD
- 9 PARTNER

CODE

0101

ENDING TIME[MILITARY].....

MILITARY TIME  
H H M M

0005

MM DD YY

0007

\_\_\_\_ 04

DATE.....

ENUMERATOR ID

0098

ENUMERATOR NAME.....

EVALUATION

0100