



**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
WHEAT PRODUCTION
PRACTICES and COSTS REPORT
for 1998**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 9/30/99
Project Code 906
Phase II

VERSION 02	POID _____	TRACT _____	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMP	0910
5 - OUT OF SCOPE	
8 - REF	
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 wheat and need your help to make the information as accurate as possible. Authority for collection of information on the 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.

BEGINNING TIME [MILITARY]

[Verify/update label.]

**[ENUMERATOR NOTE:
If box code 1, complete
Screening Supplement.
If box is blank, begin Section A.]**

SCREENING BOX

Office Use
Comp Code

PARTNERS' STRATUM 182

<input type="text" value="0925"/>	<input type="text" value="0926"/>	<input type="text" value="0927"/>	<input type="text" value="0928"/>
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PARTNERS:	POID _____	POID _____
<i>PARTNER NAME</i>		<i>PARTNER NAME</i>
<i>ADDRESS</i>		<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>		<i>CITY STATE ZIP PHONE NUMBER</i>
	POID _____	POID _____
<i>PARTNER NAME</i>		<i>PARTNER NAME</i>
<i>ADDRESS</i>		<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>		<i>CITY STATE ZIP PHONE NUMBER</i>

A WHEAT FIELD SELECTION

A

1. How many acres of wheat did this operation plant for the 1998 crop year?

- [> If no acres planted, review Phase I Information Form. Make notes, then go to item 3 of Conclusion, back page.
- > For Winter Wheat, record acres planted Fall/Winter 1997 for 1998 crop year.] . . .

TOTAL PLANTED ACRES	
0024	_____

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

a. Winter wheat?

ACRES	NUMBER OF FIELDS
0041 _____	0045 _____

- (1) [For Winter Wheat ask,--] Of these winter wheat acres, how many were planted with the intention of harvesting for grain? [Exclude acres planted only for cover crop or to be grazed off.]

ACRES	NUMBER OF FIELDS
0042 _____	0046 _____

b. Durum wheat?

ACRES	NUMBER OF FIELDS
0043 _____	0047 _____
0044 _____	0048 _____

[Total must equal item 1.]

c. Other spring wheat?

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

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

ACRES
0025 _____
0026 _____
0027 _____
0028 _____

[Total must equal item 1.]

3. I will follow a simple procedure to make a random selection from the wheat fields planted for the 1998 crop.

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

TOTAL NUMBER OF FIELDS
0029 _____

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

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

- > (If there are more than 18 fields, list only the 18 fields closest to your permanent residence.)
- > [If respondent is unable to identify or describe the fields, use a Field Selection 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 _____

OFFICE USE

0031

A WHEAT FIELD SELECTION

A

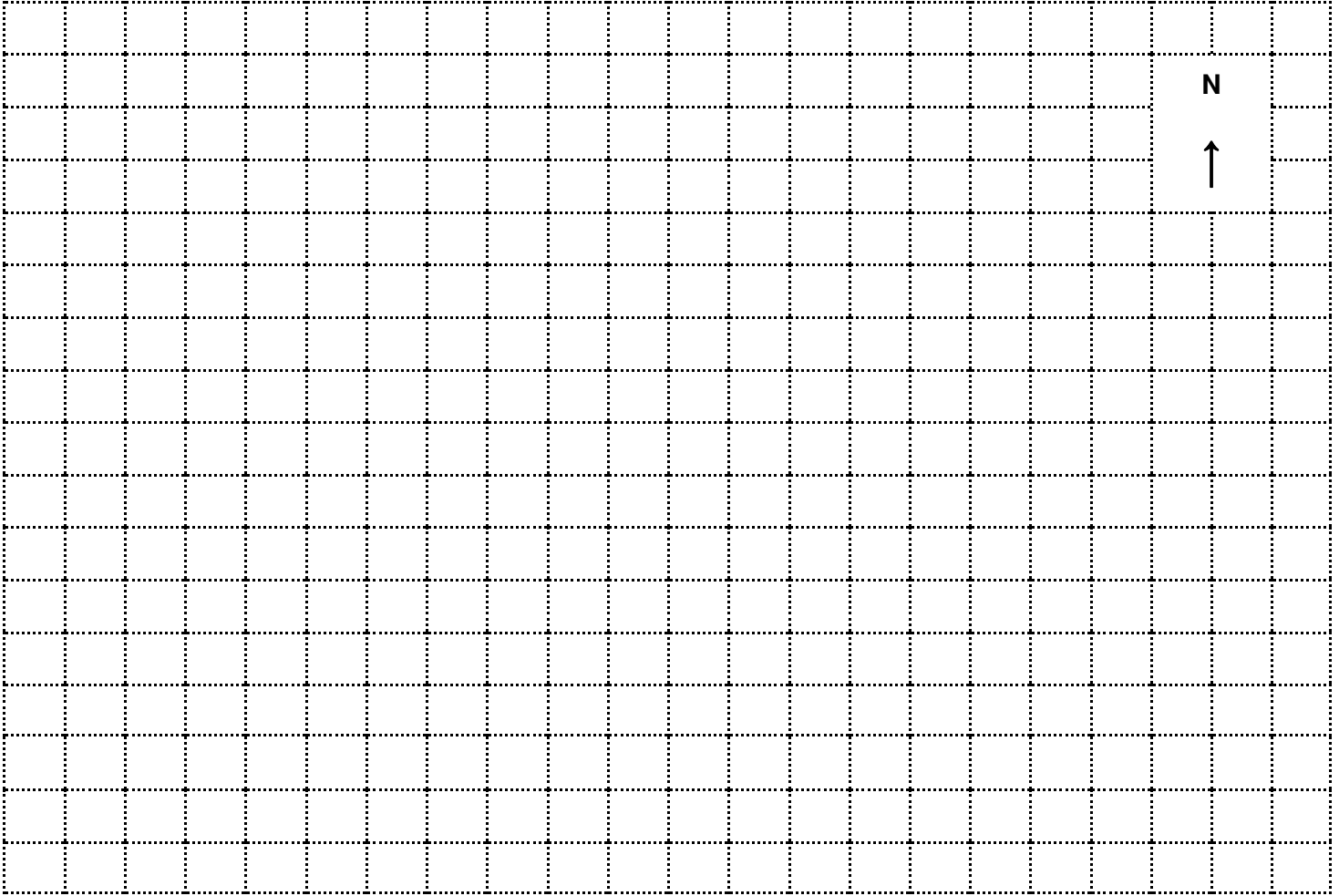
APPLY "RANDOM NUMBER" LABEL HERE

5. [ENUMERATOR ACTION: *Circle the pair of numbers on the above label associated with the last numbered field in item 4. Select the field according to the number you circled on the label, and record the selected number.*]

RECORD SELECTED NUMBER HERE

0030

6. **The field selected is (field name/number/description).**
During this interview, my questions will be about this selected wheat field.
[Be sure the operator can identify the selected field.]



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

<p>1. How many acres of wheat did this operation plant in the selected field in 1998?</p>	<p>ACRES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2201</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> </table>	2201	. __						
2201	. __								
<p>2. How many acres in this field were--</p> <p>a. owned by this operation?</p> <p>b. rented for CASH?</p> <p>c. SHARE rented?</p> <p>d. used RENT-FREE?</p>	<p>ACRES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2202</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> <tr> <td style="padding: 2px;">2203</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> <tr> <td style="padding: 2px;">2204</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> <tr> <td style="padding: 2px;">2205</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> </table>	2202	. __	2203	. __	2204	. __	2205	. __
2202	. __								
2203	. __								
2204	. __								
2205	. __								
<p>3. <i>[If field is CASH RENTED, ask--]</i></p> <p>What was the cash rent paid per acre for this 1998 wheat crop?</p>	<p>DOLLARS & CENTS PER ACRE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0060</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> </table>	0060	. __						
0060	. __								
<p>4. <i>[If field is SHARE RENTED, ask--.]</i></p> <p>What was the landlord's share of the crop from this field?</p>	<p>PERCENT</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0061</td> </tr> </table>	0061							
0061									
<p>5. <i>[If any acres in field RENTED, ask--]</i></p> <p>What year did you start renting this field?</p>	<p>YEAR</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2206</td> </tr> </table>	2206							
2206									
<p>a. Do you EXPECT to be renting this same field for the next 5 years (through the 2003 crop year)? YES = 1</p>	<p>CODE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2207</td> </tr> </table>	2207							
2207									
<p>6. What type of wheat was planted on this field?</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1 Winter</td> </tr> <tr> <td style="padding: 2px;">2 Durum</td> </tr> <tr> <td style="padding: 2px;">3 Other spring wheat</td> </tr> </table> <p>CODE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0062</td> </tr> </table>	1 Winter	2 Durum	3 Other spring wheat	0062				
1 Winter									
2 Durum									
3 Other spring wheat									
0062									
<p>7. When planted, was this field planted with the intention of --</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">1 Harvesting for grain?</td> </tr> <tr> <td style="padding: 2px;">2 Grazing only?</td> </tr> <tr> <td style="padding: 2px;">3 Other uses?</td> </tr> </table> <p><i>(Specify _____)</i></p> <p>CODE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">2208</td> </tr> </table>	1 Harvesting for grain?	2 Grazing only?	3 Other uses?	2208				
1 Harvesting for grain?									
2 Grazing only?									
3 Other uses?									
2208									
<p>8. <i>[If planted for GRAIN, ask--; else go to item 10.]</i></p> <p>What average yield per acre do you normally EXPECT from this field?</p>	<p>BUSHEL PER ACRE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0063</td> </tr> </table>	0063							
0063									
<p>9. When you made your planting decisions for this field, what market price per bushel did you use in your planning (budget) for the 1998 wheat crop?</p>	<p>DOLLARS & CENTS PER BUSHEL</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">0064</td> <td style="text-align: right; padding: 2px;">. __</td> </tr> </table>	0064	. __						
0064	. __								

B FIELD CHARACTERISTICS---SELECTED FIELD
B

		MM DD YY
10. On what date was this field planted?		2209
		UNIT CODE 1=POUNDS 2=CWT. 4=BUSHEL 25=KERNELS/SEEDS
11. What was the seeding rate per acre the first time this field was seeded?	UNITS PER ACRE	2211
	2210	2211
12. How many acres in this field had to be reseeded to wheat? (Number of acres times the number of times reseeded.)		ACRES
		0065
13. Was the source of the wheat seed--	1 Purchased? - [Enter code 1; go to item 17.] 2 Homegrown or traded? - [Enter code 2; continue.] 3 Both? - [Enter code 3; continue.]	CODE
		2214
14. How much of the wheat seed planted in this field was grown (or received in trade) by this operation?	PERCENT OR	TOTAL BUSHEL
	0066	0067
15. What was the cost per unit for cleaning and treating this seed? (Include landlord's share)	DOLLARS & CENTS PER UNIT	UNIT CODE 1=POUNDS 2=CWT. 4=BUSHEL
	0068	0069
a. [Note: if no cost for cleaning and treating seed, explain: _____]		OFFICE USE
		0070
17. Seed varieties offer several benefits. Did you choose the wheat variety used on this field primarily for--	1 Increased yield? 2 Enhanced protein content? 3 Disease resistance? 4 Insect resistance? 5 Drought resistance? 6 Not chosen for any of above reasons	CODE
		0071
18. Was a hybrid wheat seed (for example, Quantum, Hybritech, etc.) planted in this field?	YES = 1	CODE
		0059
19. [If any seed purchased, ask--] What was the total cost per unit (including both your and the landlord's share) of purchased seed for this field?	DOLLARS AND CENTS PER UNIT	UNIT CODE 1=POUNDS 2=CWT 4=BUSHEL 22=ACRE 23=50 LB BAG
	0072	0073

B FIELD CHARACTERISTICS---SELECTED FIELD B

20. Has harvest of this field been completed? YES = 1 CODE
2218

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

1 How many acres in the wheat field were (will be)--	ACRES	2 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	3 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHEL
a. harvested for grain?	2219 . ____	2220 . ____	2221
b. harvested for silage or green chop?	2222 . ____	2223 . ____	TONS
c. harvested for seed for planting?	2224 . ____	2225 . ____	2226
d. abandoned?	2227 . ____		
e. other use?	2228 . ____		

22. If any wheat acres were NOT harvested for grain or seed, what was the most important reason for this decision--

[Read entire list.]

- 1 Winter kill?
- 2 Drought?
- 3 Weeds?
- 4 Insects?
- 5 Disease?
- 6 Pasture?
- 7 Other?

CODE
0077

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

ACRES
0078 . ____

a. How many **tons** of wheat straw were harvested from these (item 23) acres?

_____ X _____ = _____ *OR* _____ X _____ ÷ 2000 = _____
TONS PER ACRE ACRES TOTAL TONS BALES LBS PER BALE LBS PER TON TOTAL TONS

TOTAL TONS
0079

b. Of the total wheat straw harvested from this field (item 23a), what was the landlord's share of the wheat straw?

PERCENT OR TONS
0080 0081

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

TOTAL DOLLARS
0082

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

What was the price received per ton for all wheat straw (item 23a) sold from this field?

DOLLARS PER TON
0083

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

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

- | | |
|---|--|
| 1 | Cattle |
| 2 | Sheep |
| 3 | Other, <i>specify</i> _____ |
| 4 | Livestock did NOT graze this wheat field-- <i>Go to item 25.</i> |

CODE

0084

a. Regardless of ownership, about how many **head** of (*livestock, item 24*) grazed this 1998 wheat crop?

HEAD

0085

b. How many **days** did these livestock graze on this 1998 wheat crop?

DAYS

0086

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

TOTAL DOLLARS

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

0087

**CROP CODE LIST for item 25
PREVIOUSLY PLANTED CROP was--**

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 <i>No crop planted during this period</i>
--	--	--	--

25. **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 on this field?
	CROP NAME	CROP CODE	YES=1
a. FALL of 1997?		2229	2230
b. SPRING/SUMMER of 1997? ..		2231	2232
c. FALL of 1996?		2233	2234
d. SPRING/SUMMER of 1996? ..		2235	2236
e. FALL of 1995?		2237	2238
f. SPRING/SUMMER of 1995? ..		2239	2240

26. [*If most recent crop was SMALL GRAIN, (barley, oats, rye or wheat) ask--*]

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

CODE

2241

YES = 1

B FIELD CHARACTERISTICS---SELECTED FIELD

B

1	2	3
27. Did your land-use practices for this field include--	In what year were the (column 1)'s established in this field?	How much of the cost of building the (column 1)'s was paid directly by you?
CODE	YEAR	PERCENT
a. terraces? YES = 1	2242	2243
b. temporary or permanent levees? . YES = 1	2245	2246
c. grassed waterways? YES = 1	2248	2249
d. contour farming? YES = 1	2251	2250
e. strip cropping? YES = 1	2252	
f. underground outlets such as tile drainage? YES = 1	2253	
g. other drainage channels or diversions? (Include water furrows) YES = 1	2254	

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

CODE
2255

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

2256

30. Have you received assistance from NRCS in 1998 for planning or installation of conservation practices or systems on this field? YES = 1

2257

31. Have you received financial cost-sharing assistance from the Farm Service Agency (formerly ASCS) in 1998 for installation of conservation practices or systems on this field? YES = 1

2258

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 1998 wheat crop? [If none, go to item 3.] YES=1

CODE 2259	EDIT TABLE 0201
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TTYPE 2	TABLE 001
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CHECK LIST	
INCLUDE	EXCLUDE
Custom Applied Fertilizers	Micronutrients
Fertilizer applied in the fall of 1997 and those applied earlier if this field was fallow in 1997	Manure

LINE 99	OFFICE USE LINES IN TABLE	0213
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LINE	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 Before seeding (fall) 2 Before seeding (spring) 3 At seeding 4 After seeding	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In seed furrow 5 In irrigation water 6 Chisel, injected or knifed in 7 Banded/sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash					
01	0205	0206	0207	0208	0209	0210	0211	0212
02	0205	0206	0207	0208	0209	0210	0211	0212
03	0205	0206	0207	0208	0209	0210	0211	0212
04	0205	0206	0207	0208	0209	0210	0211	0212
05	0205	0206	0207	0208	0209	0210	0211	0212
06	0205	0206	0207	0208	0209	0210	0211	0212
07	0205	0206	0207	0208	0209	0210	0211	0212
08	0205	0206	0207	0208	0209	0210	0211	0212

T-TYPE 0	TABLE 000	LINE 00
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2. Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 1998 wheat crop?
(Include landlord 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 3.]

DOLLARS & CENTS PER ACRE 0214	OR	TOTAL DOLLARS 0215
----------------------------------	----	-----------------------

3. What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 1998 wheat crop?
(Include landlord costs.
Exclude lime, gypsum and purchased manure.
If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated.
Include materials applied to this field if it was fallow in 1996.)

DOLLARS & CENTS PER ACRE 0216	OR	TOTAL DOLLARS 0217
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C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

T-TYPE	TABLE	LINE
0	000	00

4. *[If Nitrogen was applied, ask--]*
Did you use any product to slow the breakdown of Nitrogen on this field?
(For example a nitrification inhibitor such as N-Serve or urease inhibitor such as Agrotin) YES = 1

CODE
2260

5. **Was a--**
a. **soil test** performed on this field in 1997 or 1998
for the 1998 wheat crop? YES = 1

CODE
2261

b. **plant tissue test** performed on this field in 1997 or 1998
for the 1998 wheat crop? YES = 1

CODE
2262

c. *[If soil or plant tissue test done, ask--, else go to item 6.]*
How much was spent for these soil and plant tissue tests on this field?
[Include landlord's costs.]

TOTAL DOLLARS
0218

(1) *[Note: If tests were done but no cost, explain: _____]*

OFFICE USE
0219

6. **Was a Nitrogen soil test performed on this field?**

YES - *[Enter code 1 and continue.]* **NO** - *[Go to item 7.]*

CODE
2263

a. **Was the amount of Nitrogen applied to this field--**

1 More than the amount recommended?
2 Less than the amount recommended?
3 Exactly the amount recommended?

CODE
2264

7. **Is lime ever applied to this field?**

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

CODE
2265

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

YEARS
2266

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

TONS PER ACRE
2267

c. *[If rented, ask--]*
Considering the last time it was applied, what percent of the total cost
of lime and its application was paid by the landlord(s)?

PERCENT
0220

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

8. Was manure applied to this field for the 1998 wheat crop?
(Exclude commercially prepared manure.)

YES - [Enter code 1 and continue.]

NO - [Go to Section D.]

CODE
2268

a. How many acres was manure applied to?

ACRES
2269

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

TOTAL TONS
2270

OR TOTAL GALLONS
2271

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
2272

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

- 1 Beef cattle?
- 2 Dairy cattle?
- 3 Hogs?
- 4 Sheep?
- 5 Poultry?
- 6 Other?

CODE
2273

e. Was the manure--

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

CODE
2274

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 1998 wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 wheat crop? YES=1
 [Probe for applications made in the fall of 1997 (and those made earlier if this field was fallow).]

[If none, go to Section E.]

CODE
2278

OFFICE USE
EDIT TABLE
0301

Include		Check List		Exclude	
<input type="checkbox"/>	Defoliant	<input type="checkbox"/>	Fungicides	<input type="checkbox"/>	Fertilizers reported earlier
<input type="checkbox"/>	Herbicides	<input type="checkbox"/>	Insecticides	<input type="checkbox"/>	Seed Treatments
<input type="checkbox"/>	All other pesticides				

T-TYPE	TABLE
3	001

LINE 99	OFFICE USE LINES IN TABLE	0319
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NOTES	LINE	2	3	4	5	6 OR 7		8
		What products were applied to this field? [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D.]	Was this part of a tank mix? [If tank mix, enter line number of first product in tank mix.]	When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	How much was applied per acre per application ?	What was the total amount applied per application in this	[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

T-TYPE	TABLE	LINE
0	000	00

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 D

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 treatments
5 In Irrigation water	

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



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-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	14 Were these applications made by-- 1 Operator, Partner or Family member? 2 Custom applicator? 3 Employee / Other?	OPTIONAL ITEM ④ What was the cost per unit of the product?	
							DOLLARS & CENTS PER UNIT	UNIT CODE 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
01	0311	0312 •	0313	0314	0315	0316	0317 •	0318
02	0311	0312 •	0313	0314	0315	0316	0317 •	0318
03	0311	0312 •	0313	0314	0315	0316	0317 •	0318
04	0311	0312 •	0313	0314	0315	0316	0317 •	0318
05	0311	0312 •	0313	0314	0315	0316	0317 •	0318
06	0311	0312 •	0313	0314	0315	0316	0317 •	0318
07	0311	0312 •	0313	0314	0315	0316	0317 •	0318
08	0311	0312 •	0313	0314	0315	0316	0317 •	0318
09	0311	0312 •	0313	0314	0315	0316	0317 •	0318
10	0311	0312 •	0313	0314	0315	0316	0317 •	0318
11	0311	0312 •	0313	0314	0315	0316	0317 •	0318

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

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

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

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

OFFICE USE	
YES = 1	0324
NO = 3	

- 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
0320		0321
. ____		

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

DOLLAR & CENTS PER ACRE	OR	TOTAL DOLLARS
0322		0323
. ____		

Include operator and landlord cost, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 1997 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.

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 1998 wheat 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 wheat field scouted for--</p>	<p>2</p> <p><i>[If YES, ask--]</i></p> <p>Was most of the scouting for [column 1] done by--</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?	2279 2280
b. insects?	2281 2282
c. diseases?	2283

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

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

DOLLARS AND CENTS PER ACRE	OR	TOTAL DOLLARS
0331		0332
OFFICE USE		
0333		

a. **[Note: If scouting performed but no cost, explain: _____]**

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

PERCENT
0334

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

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

HOURS
0335

5. *[If field was SCOUTED ask--]*

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

YES = 1	2284
CODE	

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

6. [Enumerator Action: *Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?*
 YES - [Continue.] NO - [Go to item 11.]

7. **Did you apply herbicides to the field BEFORE weeds emerged?** CODE
 YES - [Enter code 1 and continue.] NO - [Go to item 9.] YES = 1 2285

8. **Did you decide to apply herbicides BEFORE weeds emerged based on--**

a. a routine treatment for weed problems experienced in previous years? YES = 1	2286
b. field mapping of previous weed problems? YES = 1	2287
c. recommendations from a <i>chemical dealer</i> ? YES = 1	2288
d. recommendations from an <i>independent crop consultant</i> ? YES = 1	2289

9. **Did you apply herbicides to this field AFTER weeds emerged?** CODE
 YES - [Enter code 1 and continue.] NO - [Go to item 11.] YES = 1 2290

10. **Did you decide to apply herbicides AFTER weeds emerged based on--**

a. a routine treatment? YES = 1	2291
b. type and/or density of weed(s) present? YES = 1	2292
c. recommendations from a <i>chemical dealer</i> ? YES = 1	2293
d. recommendations from an <i>independent crop consultant</i> ? YES = 1	2294

11. [Enumerator Action: *Were INSECTICIDES used (pesticide product codes 1000-1999), Section D, item 1 column 2?*
 YES - [Continue.] NO - [Go to item 14.]

12. **Did you decide to apply insecticides to this wheat field based on--**

a. a preventative schedule? YES = 1	2295
b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1	2296
c. standard practices or history of insect problems? YES = 1	2297
d. local information (<i>from other farmers, radio, TV, newsletters, etc.</i>) that the pest was or was not present? YES = 1	2298
e. your (the operator's) own determination of the infestation level? YES = 1	2299

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

[If YES, ask--]
Was your main reason for doing this to control-
 -
 1 WEEDS
 2 INSECTS
 3 BOTH

14. Were (was)--

- | | | CODE |
|--|--|-----------------------------------|
| a. planting or harvesting dates adjusted on this field to reduce (or control) pests? | YES=1 <input type="text" value="2301"/> | <input type="text" value="2302"/> |
| b. pesticides alternated from year to year on this field to control pests? (Use pesticides from different families) | YES=1 <input type="text" value="2303"/> | <input type="text" value="2304"/> |
| c. a biological soil analysis done on this wheat field to detect the presence of soil pests, such as insects, diseases or nematodes? | YES= 1 <input type="text" value="2305"/> | |
| d. beneficial insects considered in selecting and using pesticides on this field? | YES= 1 <input type="text" value="2306"/> | |
| e. beneficial insects purchased and released in the wheat field? | YES= 1 <input type="text" value="2307"/> | |

15. Were (was)--

- | | | CODE |
|---|---|-----------------------------------|
| a. crops rotated on this field during the last 3 years to control pests? | YES=1 <input type="text" value="2310"/> | <input type="text" value="2311"/> |
| b. pest resistant seed varieties used? | YES=1 <input type="text" value="2312"/> | |
| c. seed treatments done for disease control? | YES=1 <input type="text" value="2313"/> | |
| d. row spacing or plant density adjusted on this field to control pests? | YES=1 <input type="text" value="2314"/> | <input type="text" value="2315"/> |
| e. practices such as tilling, mowing, burning, and/or chopping of field edges, lanes or roadways from this field used to keep pests from spreading? | YES=1 <input type="text" value="2316"/> | <input type="text" value="2317"/> |
| f. water management practices, such as controlled drainage or irrigation scheduling used on this field to control pests? [Exclude chemigation.] | YES=1 <input type="text" value="2318"/> | <input type="text" value="2319"/> |
| g. grazing dates adjusted on this field to reduce or help control pests? | YES=1 <input type="text" value="2320"/> | |
| h. cleaning the harvesting and tillage implements from this field done to reduce the spread of pests? | YES=1 <input type="text" value="2321"/> | <input type="text" value="2322"/> |

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

16. [Biological pest controls include beneficial insects, floral lures, attractants or repellants applied to the field, pheromones and pheromone traps.]

What were the TOTAL materials and application costs for all biological pest controls for this field?

[Include landlord's share.]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0336		0337
. _ _		

17. [Show Pest Management Information Sources codes in Respondent Booklet.]

What was your primary outside source of information on pest management recommendations for the 1998 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 |
| 9 | None |

[Choose one and enter code.]

2323

18. **Have you (the operator) attended any training session on pest identification and management since October 1, 1997?**

YES = 1

CODE

0338

19. **Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides?**

YES = 1

CODE

0339

OFFICE USE

0340

F FIELD OPERATIONS, LABOR and CUSTOM SERVICES --- SELECTED FIELD F

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

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

1	2 What tractors and self-propelled harvesters were used on this field? MAKE and MODEL	3 What was the model year? <i>(Example: 1989)</i> YEAR	4 Is this vehicle a -- 2 2-wheel drive tractor? 3 2-wheel drive tractor with front wheel assist? 4 4-wheel drive tractor? 5 crawler or other tracked-tractor? 6 other tractor? 7 self-propelled harvester? CODE	[If TRACTOR, ask--]	
				5 What is its PTO horsepower? PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline? 3 LP gas 9 other? CODE
1		0120 ____	0121	0122	0123
2		0124 ____	0125	0126	0127
3		0128 ____	0129	0130	0131
4		0132 ____	0133	0134	0135
5		0136 ____	0137	0138	0139
6		0140 ____	0141	0142	0143
7		0144 ____	0145	0146	0147
8		0148 ____	0149	0150	0151
9		0152 ____	0153	0154	0155
10		0156 ____	0157	0158	0159
11		0160 ____	0161	0162	0163
12		0164 ____	0165	0166	0167
13		0168 ____	0169	0170	0171
14		0172 ____	0173	0174	0175
15		0176 ____	0177	0178	0179
16		0180 ____	0181	0182	0183
17		0184 ____	0185	0186	0187
18		0188 ____	0189	0190	0191
19		0192 ____	0193	0194	0195
20		0196 ____	0197	0198	0199

F FIELD OPERATIONS, LABOR and CUSTOM SERVICES --- SELECTED FIELD F

2. Including custom operations, I need to list field work performed by machines on this field for the 1998 wheat crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 1997, list operations starting with fall 1996.)
- ▶ 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
- Tillage
- Preparing for Irrigation
- Planting
- Fertilizer & Pesticide applications
- Harvesting & Hauling
to storage or first point of sale

Exclude

- Lime & Gypsum applications

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

OFFICE USE

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

0347

F FIELD OPERATIONS, LABOR and CUSTOM SERVICES --- SELECTED FIELD F

3. I need some additional information about the labor used on this field.
Please list all workers, paid and unpaid, that worked on this field to produce the 1998 wheat crop.

Include ▶ workers who worked on the field during the Fall of 1997 and earlier if field was left fallow during 1997.

Exclude ▶ contract and custom workers.

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

1 LIST WORKERS <i>[Include machine and non-machine workers. Exclude contract and custom workers.]</i>	2 [Enter number of workers.] NUMBER	3 Was (worker)-- 1 PAID 2 UNPAID CODE	[If PAID, ask--]		[If PAID or UNPAID, ask--]
			4 Was (worker)-- 1 FULL TIME 2 PART TIME 3 SEASONAL CODE	5 What was the average hourly cash wage rate paid (per person) for ALL of (worker's) work on this field? DOLLARS & CENTS PER HOUR	6 Other than the hours just reported operating machines, what were the total hours (worker) worked on activities for this field? <i>(Include time spent loading materials into equipment, scouting, irrigating, burning, drying and management activities.)</i> TOTAL HOURS
<input type="checkbox"/> You (the operator)					0754
<input type="checkbox"/> Partners	0755				0759
<input type="checkbox"/> Spouse		0761	0762	0763	0764
	0765	0766	0767	0768	0769
	0770	0771	0772	0773	0774
	0775	0776	0777	0778	0779
	0780	0781	0782	0783	0784
	0785	0786	0787	0788	0789
	0790	0791	0792	0793	0794
	0795	0796	0797	0798	0799
	0800	0801	0802	0803	0804
	0805	0806	0807	0808	0809
	0810	0811	0812	0813	0814
	0815	0816	0817	0818	0819
	0820	0821	0822	0823	0824

IRRIGATION---SELECTED FIELD

	ACRES	
1. How many acres in this field were irrigated for the 1998 wheat crop? <i>[If none, go to Section H.]</i>	2333	. ____
2. Now, I have some questions about irrigation systems and water used on this field for the 1998 wheat crop.		
a. What type(s) of irrigation system(s) were used to irrigate this field? <i>[Show System Type Codes, enter System Type Code for up to two systems covering the most field acres.]</i>	SYSTEM 1	SYSTEM 2
SYSTEM TYPE CODE	0251	0263
b. What was the total number of inches of water applied per acre to this field during the entire growing season? <i>[Include ALL water used from both on-farm and off-farm sources.]</i> . INCHES PER ACRE <i>[If operator cannot provide item 2b, ask--]</i>	0252	0264
(1) What is the total number of hours this system was used to apply water to this field during the wheat growing season?	0253	0265
TOTAL HOURS		
c. What percent of the water used to irrigate this field through this system came from surface water sources?	0254	0266
PERCENT		
d. What was the number of times this field was irrigated during the wheat growing season using this system? <i>[Include any pre-plant irrigation.]</i>	0255	0267
NUMBER OF IRRIGATIONS		
e. Was the pump type-- <i>[Enter code for most common pump type.]</i> <i>[If more than one pump in the system, enter type for pump closest to water source.]</i>	0256	0268
CODE		
1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP-? <i>[If code 99, go to item j.]</i>	0257	0269
f. What was the average pumping rate?	0258	0270
GALLONS PER MINUTE		
g. <i>[If used PRESSURE SYSTEM, ask--]</i> What was the system operating pressure?	0259	0271
POUNDS PER SQUARE INCH		
1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER	0260	0272
CODE		
h. What was the motor type?	0261	0273
HORSE-POWER		
i. What was the average motor size?	0262	0274
GALLONS PER MINUTE		
j. <i>[If NO PUMP was used, ask--]</i> What was the average flow rate?	0262	0274
GALLONS PER MINUTE		
k. How many other acres on this operation were irrigated using this field's irrigation system during the 1998 growing season? <i>[Exclude this field.]</i> ____	. ____
ACRES		

G

IRRIGATION---SELECTED FIELD

G

	CODE	
3. Was any water purchased to irrigate this field? (<i>Include landlord's share and purchases from all sources.</i>) YES=1		2340
[<i>If YES, ask--</i>]	PERCENT	
a. What percent of the water used on this field was purchased?		2341
b. What was the total cost for the water purchased for this field during the 1998 growing season? (<i>Include landlord's cost.</i>)	DOLLARS	0275
4. [<i>If SIPHON TUBES were used, ask--</i>]		
What would be the total cost to replace all the siphon tubes used on this field?		0276
5. [<i>If POLY PIPE system was used, ask--</i>]		
What was the total amount spent for poly pipe used on this field during the 1998 growing season?		0277
6. [<i>If GATED PIPE system was used, ask--</i>]		
What was the--	INCHES	
a. Average diameter of gated pipe used to irrigate this field?		0278
	FEET	
b. Total length of gated pipe used?		0279
7. Were wells used to supply irrigation water for this field? YES=1	CODE	
[<i>If YES, ask--</i>]		2342
a. How many wells were used to irrigate this field?	NUMBER	0280
	INCHES	
b. What was the average diameter of the outer well casing?		0281
	FEET	
c. What was the average pumping depth of these wells during the irrigation season? [<i>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.</i>]		0282
d. [<i>If same well(s) used to irrigate other fields, ask--</i>]		
How many other acres on this operation were irrigated using the same wells during the 1998 growing season?	ACRES	0283

IRRIGATION---SELECTED FIELD

8. Other than pipe that is part of the system, was any additional mainline or lateral pipe used to carry water from the source to this field? (Include underground pipe.)YES=1

CODE
0284

[If YES, ask--]

a. What was the most common type of additional pipe--

PIPE TYPE CODES	
1	Aluminum - (non-hi-pressure)?
2	Aluminum - (hi-pressure)?
3	Steel?
4	Plastic?
5	Other? (specify:_____)

CODE
0285

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

INCHES
0286

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

FEET
0287

9. Is the run off from this field--

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

CODE
0288

H DRYING and STORAGE--SELECTED FIELD H

1. Was (or will) most of the wheat crop from this field--
 [Include landlords share.]

- | | |
|---|--|
| 1 | Custom dried - <i>Continue.</i> |
| 2 | Dried other than custom dried - <i>Go to item 3.</i> |
| 3 | Not dried - <i>Go to item 4.</i> |

CODE
0102

2. [If CUSTOM DRIED, ask--]

What was (will be) the cost of custom drying the wheat from this field? [Include landlord's share.]

CENTS PER BUSHEL OR	TOTAL DOLLARS
0103	0104

a. [If no cost, explain _____]

OFFICE USE
0105

3. [If DRIED OTHER THAN CUSTOM, ask--]

a. Was the main fuel type used to dry wheat from this field--

- | | |
|---|-------------|
| 1 | Diesel |
| 2 | Gasoline |
| 3 | LP gas |
| 4 | Natural gas |
| 5 | Electricity |
| 6 | Other |

CODE
0106

b. On average, how many percentage points of moisture were (will be) removed from the grain from this field?

PERCENTAGE POINTS
0107

Example: Harvested grain at 13.1 percent moisture
 Dried grain to 12.0 percent moisture
 1.1 points removed, enter in cell 0107

4. How much of the wheat harvested from this field was--

- a. sold at harvest? +
- b. NOT sold but hauled to ON-FARM storage? +
- c. NOT sold but hauled to OFF-FARM storage? +

PERCENT	OR	BUSHEL
0108	+	0109
0110	+	0111
0112	+	0113
100%	=	

5. [If grain stored OFF-FARM, ask--]

What was the average monthly storage charge per unit?

DOLLARS AND CENTS PER UNIT	UNIT CODE
0114	2=CWT. 3=TON 4=BUSHEL
	0115

LANDLORD COSTS

1. [If selected field RENTED, ask--; else go to Conclusion.]

Did your landlord for this selected wheat field contribute to the cost of any of these production expense items for the 1998 crop?

[Show Landlord Cost items in the Respondent Booklet.]

CODE

0839

YES - [Enter 1 and continue.] **NO** - [Enter 3 and go to Conclusion.]

1 Which items? [Check ✓ all that are YES.]	2 [For each item checked in column 1, ask--] How much did your landlord spend for [column 1 item] for this field?		
	PERCENT	OR	TOTAL DOLLARS
<input checked="" type="checkbox"/> Seed Costs			
<input type="checkbox"/> a. Purchased seed	0840		0841
<input type="checkbox"/> b. Seed cleaning and treating	0842		0843
<input checked="" type="checkbox"/> Fertilizer Costs [Exclude Lime and Gypsum]			
<input type="checkbox"/> d. Fertilizer custom applications	0846		0847
<input type="checkbox"/> e. Fertilizer materials	0848		0849
<input checked="" type="checkbox"/> Chemicals/Pesticides Costs			
<input type="checkbox"/> f. Chemicals/pesticides custom applications	0850		0851
<input type="checkbox"/> g. Chemicals/pesticides materials	0852		0853
<input checked="" type="checkbox"/> Technical Services			
<input type="checkbox"/> h. Soil tests or plant tissue tests	0854		0855
<input type="checkbox"/> i. Scouting services	0856		0857
<input type="checkbox"/> j. Biological pest controls and their application	0858		0859
<input type="checkbox"/> k. Other custom technical services [specify _____]	0860		0861
<input checked="" type="checkbox"/> Custom Field Operations and Services			
<input type="checkbox"/> l. Custom land preparation, shaping, and/or leveling	0862		0863
<input type="checkbox"/> m. Custom cultivating	0864		0865
<input type="checkbox"/> n. Custom planting and/or reseeded	0866		0867
<input type="checkbox"/> o. Custom harvesting of the crop	0868		0869
<input type="checkbox"/> p. Custom hauling of the wheat grain or seed from the field to storage or point of first market	0870		0871
<input type="checkbox"/> q. Custom drying	0872		0873
<input type="checkbox"/> r. Custom raking, baling or hauling wheat straw	0874		0875
<input type="checkbox"/> s. Other custom services	0876		0877
<input checked="" type="checkbox"/> Irrigation and Water Management Costs			
<input type="checkbox"/> t. Fuel, lubrication and electricity for irrigation	0878		0879
<input type="checkbox"/> u. Repairs for irrigation equipment	0880		0881
<input type="checkbox"/> v. Purchased irrigation water	0882		0883

CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of wheat on this map.
- OFFICE USE--
COUNTY FIPS
CODE
- COUNTY NAME
- c. What county is the selected wheat field in?
2. [ENUMERATOR ACTION: *Mark map to indicate where the selected 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, 1999, to collect it. I'll call you then to set up a time that's good for you.
4. Would you like to receive a copy of the results of this survey in the mail?
(Results will also be available on the Internet at <http://www.usda.gov/nass/>) YES = 1

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

SUPPLEMENTS USED

6. [Record the total number of each type of supplement used to complete this interview.]
- | | NUMBER |
|-------------------------|--|
| FERTILIZER APPLICATIONS | <input style="width: 80px; text-align: center;" type="text" value="0020"/> |
| PESTICIDE APPLICATIONS | <input style="width: 80px; text-align: center;" type="text" value="0021"/> |
| FIELD OPERATIONS | <input style="width: 80px; text-align: center;" type="text" value="0022"/> |

RESPONDENT	1 OPERATOR/MANAGER/PARTNER 2 SPOUSE 3 ACCOUNTANT/BOOKKEEPER 4 OTHER	CODE
	<input style="width: 80px; text-align: center;" type="text" value="0101"/>
Respondent's name [if code 3 or 4]	_____	
Phone	(_____) _____	
ENDING TIME [MILITARY]		MILITARY TIME <input style="width: 80px; text-align: center;" type="text" value="0005"/>
DATE:		MM DD YY <input style="width: 80px; text-align: center;" type="text" value="0007"/>
ENUMERATOR NAME		ENUMERATOR ID <input style="width: 80px; text-align: center;" type="text" value="0098"/>
		EVALUATION <input style="width: 80px; text-align: center;" type="text" value="0100"/>