



U.S. Department of Agriculture
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Washington, D.C. 20250-2000
202-720-7017

AGRICULTURAL RESOURCE MANAGEMENT STUDY WINTER WHEAT PRODUCTION PRACTICES REPORT for 1997

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

VERSION	STRATUM	ID/SEGMENT	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
07					0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMP	0910
5 - SCREENOUT	
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 to produce winter wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Winter Wheat Production Practices Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

We encourage you to refer to your farm records during the interview.

BEGINNING TIME [MILITARY]

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

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

SCREENING BOX

PARTNERS:	
LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
LSF ID _____	LSF ID _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

Office Use Comp Code	0912	Partners' Stratum 182	0925	0926	0927	0928
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A WINTER WHEAT FIELD SELECTION

A

1. How many acres of winter wheat did this operation **harvest for grain** in 1997?

[If no acres harvested for grain, review information on Phase I Information Form.

Make notes, then go to Conclusion, back page.]

ACRES HARVESTED
FOR GRAIN

0117

3. I will follow a simple procedure to make a random selection from the winter wheat fields harvested for grain for the 1997 crop.

What is the TOTAL number of winter wheat fields that were harvested for grain on this operation?

NUMBER

0122

[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 Grid on next page.]*

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

0124

B FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of winter wheat did this operation plant in the selected field in 1997?

ACRES	
1421	. <u> </u>

2. How many acres in this field were--
a. owned by this operation?

1422	. <u> </u>
------	-------------

b. rented for **CASH**?

1423	. <u> </u>
------	-------------

c. **SHARE** rented?

1424	. <u> </u>
------	-------------

d. used **RENT-FREE**?

1425	. <u> </u>
------	-------------

8. Was a no-till system used to prepare and plant this winter wheat field?
 YES - [Enter code 1 and continue.] **NO** - [Go to item 9.]

CODE	
1426	

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

YEARS	
1427	

9. On what date was this field planted?

MM DD YY	
1428	

10. What was the seeding rate per acre the first time this field was seeded?

UNITS PER ACRE	
UNIT CODE 1=POUNDS 2=CWT. 4=BUSHEL 25=KERNELS/SEEDS	
1429	. <u> </u>
1430	

12. Was the source of the winter wheat seed--

1	PURCHASED
2	HOMEGROWN OR TRADED
3	BOTH

.....

CODE	
1433	

B FIELD CHARACTERISTICS---SELECTED FIELD

B

CODE

1438

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

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

1	2 How many acres in the winter wheat field were (will be) harvested for-- [column 1] ACRES	3 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	4 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHEL 5=BARRELS
a. grain?	0024 .	0025 .	0026
b. silage or green chop?	0027 .	0028 .	TONS
c. seed for planting?	0030 .	0031 .	0032
h. abandoned?	0045 .		
i. other use?	0046 .		

B FIELD CHARACTERISTICS---SELECTED FIELD

B

CROP CODE LIST for item 20 PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay 190 Barley 3 Dry Beans 85 Canola 310 Clover 6 Corn for grain 5 Corn for silage	201 Cotton, Upland 202 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 Fallow or Idle (diverted)

20. 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-- [column 1]		3 Was this crop irrigated on this field? YES=1
	NAME	CODE	
b. SPRING/SUMMER of 1996?		0074	0075
c. FALL of 1995?		0076	0077
d. SPRING/SUMMER of 1995?		0078	0079
e. FALL of 1994?		0080	0081
f. SPRING/SUMMER of 1994?		0082	0083

21. [If most recent crop in item 20 was SMALL GRAIN, (barley, oats, rye or wheat) ask--]

Was crop residue removed from this field by baling or removing straw, burning, etc.? YES = 1 CODE
1439

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

a. terraces?	YES = 1	1440
b. contour farming?	YES = 1	1441
c. temporary or permanent levees?	YES = 1	1442
d. grassed waterways?	YES = 1	1443
e. strip cropping?	YES = 1	1444
f. underground outlets such as tile drainage?	YES = 1	1445
g. other drainage channels or diversions? (Include water furrows)	YES = 1	1446

23. Has the Natural Resource Conservation Service or NRCS classified this field as "Highly Erodible"? YES = 1 1447

24. Have you been notified by NRCS that this field contains a wetland? YES = 1 1448

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. What commercial FERTILIZERS were applied to this field for the 1997 winter wheat crop?
 [If none, go to item 6.]

EDIT TABLE

0201

TTYTYPE

TABLE

2

001

CHECK LIST

Include

Exclude

- Custom Applied Fertilizers
- Fertilizer applied in the fall of 1996 and those applied earlier if this field was fallow in 1996.

- Micronutrients
- Manure

99	OFFICE USE LINES IN TABLE	0213
----	---------------------------	------

LINE	2 → → → MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 POUNDS 12 GALLONS 19 POUNDS of ACTUAL NUTRIENTS	5 When was this applied? 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-0	TABLE 000	LINE 00
-----	-----------	---------

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

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

6. Was a--

a. **soil test** performed on this field in 1996 or 1997 for the 1997 winter wheat crop? YES = 1 CODE
1452

b. **plant tissue test** (performed on this field in 1996 or 1997 for the 1997 winter wheat crop)? YES = 1 1453

7. Was a Nitrogen soil test performed?

YES - [Enter code 1 and continue.] **NO** - [Go to item 9.] 1454

1 More than the Amount Recommended?

2 Less than the Amount Recommended?

3 Exactly the Amount Recommended?

a. Was the amount of Nitrogen applied to this field-- 1455

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

YES - [Enter code 1 and continue.] **NO** - [Go to Section D.] 1459

a. On average, how many years are there between applications of **lime** to this field? YEARS
1460

b. How many tons of **lime** were applied per acre the last time it was applied to this field? TONS PER ACRE
1461 • ____

NOTES and CALCULATIONS:

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 1997 winter wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1997 winter wheat crop?

[Probe for applications made in the fall of 1996 (and those made earlier if this field was fallow).]

YES - [Continue.] NO - [Go to Section E.]

EDIT TABLE

0301

CHECK LIST

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

T-TYPE

3

TABLE

001

99 OFFICE USE LINES IN TABLE 0319

NOTES	LINE	2	3	4	5	6 OR 7	8	
		What products were applied to this field? [Use 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

[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	



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>[Use 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?
	01	0311	0312 . ==	0313	0314	0315
02	0311	0312 . ==	0313	0314	0315	0316
03	0311	0312 . ==	0313	0314	0315	0316
04	0311	0312 . ==	0313	0314	0315	0316
05	0311	0312 . ==	0313	0314	0315	0316
06	0311	0312 . ==	0313	0314	0315	0316
07	0311	0312 . ==	0313	0314	0315	0316
08	0311	0312 . ==	0313	0314	0315	0316
09	0311	0312 . ==	0313	0314	0315	0316
10	0311	0312 . ==	0313	0314	0315	0316
11	0311	0312 . ==	0313	0314	0315	0316

T-TYPE	TABLE	LINE
0	000	00

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

- Now I have some questions about pest management decisions and practices used on this field for the 1997 winter wheat crop. **By pests, we mean WEEDS, INSECTS and DISEASES.**
- Let's begin with questions about scouting this field for pests.

1	2 Was the winter wheat field scouted for-- [column 1] YES=1	③ [For rows with YES =1, ask--] Was most of the scouting for [column 1] done by-- 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? CODE
a. weeds	0325	0326
b. insects	0327	0328
c. diseases	0329	

- [If field was SCOUTED ask--; else go to item 6.]

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

- YES** - [Enter code 1 and continue.] **NO** - [Go to item 6.]

CODE 1473

- [If YES, ask--]

Which pests did you keep records on--
[Use Target Pest codes in Respondent Booklet.] ...

ENTER TARGET PEST CODES			
1474	1475	1476	1477

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 12.]

7. Did you apply herbicides to the winter wheat field BEFORE weeds emerged?

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

CODE

1478

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

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

1479

1480

1481

1482

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

YES - [Enter code 1 and continue.] **NO** - [Go to item 12.]

1483

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

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

1484

1485

1486

1487

12. [Enumerator Action: Were **INSECTICIDES** used (*pesticide product codes 1000-1999*), Section D, item 1 column 2?

YES - [Continue.] **NO** - [Go to item 15.]

13. Did you decide to apply insecticides to the winter wheat field based on--

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

1489

1491

1492

1493

1494

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

15. Were --		CODE
a.	planting or harvesting dates adjusted on this field to reduce (or control) pests? YES = 1	1496
b.	pesticides alternated from year to year on this field to control pests? (<i>Use pesticides from different families.</i>) YES = 1	1498
h.	grazing dates adjusted on this wheat field to reduce (or help control) pests? YES = 1	1510

16. Was (were)--		
a.	a biological soil analysis done on this field to detect the presence of soil pests, such as insects, diseases or nematodes? YES = 1	1511
b.	beneficial insects considered in selecting and using pesticides on this field? YES = 1	1512

17. Were --		
a.	beneficial insects purchased and released in this winter wheat field? YES = 1	1516

19. **What was your primary outside source of information on pest management recommendations for the 1997 winter wheat crop?**
[Use Pest Management Information Sources code List.]

**PEST MANAGEMENT INFORMATION SOURCES
CODE LIST**

- | | |
|--------------------------|---|
| <input type="checkbox"/> | 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 (<i>World Wide Web, DTN, etc.</i>) |
| | 8 Other |
| | 9 None |

[Choose one and enter code.]

1519

21. Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides? YES = 1		CODE
		0398

OFFICE USE

0399

NOTES and CALCULATIONS:

F FIELD OPERATIONS---SELECTED FIELD F

2. Including custom operations, I need to list field work performed by machines on this field for the 1997 winter wheat crop. Please...

- ▶ Begin with the first field operation after harvest of the previous crop,
- ▶ List the operations in order through seeding, and
- ▶ Maintain the order of tandem hook-ups.

CODES FOR COLUMN 5

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

CHECK LIST

Include all field work using machines for--

- Land Forming
- Tillage
- Preparing for Irrigation before seeding
- Planting

Exclude

- Lime & Gypsum applications
- Applying Fertilizers & Pesticides
- Harvesting & Hauling using carts, trailers or wagons

2 SEQUENCE 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.]	[If CUSTOM (column 5 = code 6) skip columns 9-10]		11 In what month was this operation done? MMYY
				9 How many acres were covered? 1/ ACRES	10 How many acres were covered per hour? ACRES PER HOUR	
0401		0402	0403	0407	0408	0409
0411		0412	0413	0417	0418	0419
0421		0422	0423	0427	0428	0429
0431		0432	0433	0437	0438	0439
0441		0442	0443	0447	0448	0449
0451		0452	0453	0457	0458	0459
0461		0462	0463	0467	0468	0469
0471		0472	0473	0477	0478	0479
0481		0482	0483	0487	0488	0489
0491		0492	0493	0497	0498	0499
0501		0502	0503	0507	0508	0509
0511		0512	0513	0517	0518	0519
0521		0522	0523	0527	0528	0529
0531		0532	0533	0537	0538	0539
0541		0542	0543	0547	0548	0549
0551		0552	0553	0557	0558	0559
0561		0562	0563	0567	0568	0569

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine, rear mounted blade and hauling operations, enter total HOURS, not acres. Then leave column 10 blank.

OFFICE USE
0015

F

FIELD OPERATIONS---SELECTED FIELD

F

10. Was there (will there be) a yield monitor on the equipment used to harvest this winter wheat field? YES = 1

a. [*If YES, ask--*] Was (will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1

G

IRRIGATION---SELECTED FIELD

G

<p>1. How many acres in this field were irrigated for the 1997 winter wheat crop? <i>[If none, go to conclusion.]</i></p>	<p>ACRES</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1522</td> </tr> </table>	1522
1522		
<p>2. Now, I have some questions about the irrigation of this field for the 1997 winter wheat crop.</p> <p>a. What type of irrigation system was used to irrigate this field? <i>[Ask Respondent to look at System Type Codes in the Respondent Booklet. Enter System Type Code for system covering the most field acres.]</i></p>	<p>SYSTEM TYPE CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1523</td> </tr> </table>	1523
1523		
<p>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></p>	<p>INCHES PER ACRE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1524</td> </tr> </table>	1524
1524		
<p>c. <i>[Ask only if operator cannot provide item 2b; else go to item 2d.]</i> What is the total number of hours that water was applied to this field during the growing season?</p>	<p>TOTAL HOURS</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1525</td> </tr> </table>	1525
1525		
<p>(1) How many gallons per minute were applied?</p>	<p>GALLONS PER</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1526</td> </tr> </table>	1526
1526		
<p>d. What percent of ALL water applied to this field came from surface water sources?</p>	<p>PERCENT</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1527</td> </tr> </table>	1527
1527		
<p>e. What was the number of times this field was irrigated during the growing season?</p>	<p>NUMBER</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1528</td> </tr> </table>	1528
1528		
<p>3. Was any water purchased to irrigate this field? <i>(Include landlord's share and purchases from all sources.)</i></p> <p><input type="checkbox"/> YES - <i>[Enter code 1 and continue.]</i> <input type="checkbox"/> NO - <i>[Go to item 7.]</i></p>	<p>CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1529</td> </tr> </table>	1529
1529		
<p>a. What percent of the water used on this field was purchased?</p>	<p>PERCENT</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1530</td> </tr> </table>	1530
1530		
<p>7. Were wells used to supply irrigation water for this field? <input type="checkbox"/> YES - <i>[Enter code 1 and continue.]</i> <input type="checkbox"/> NO - <i>[Go to conclusion.]</i></p>	<p>CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1531</td> </tr> </table>	1531
1531		
<p>e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1997?</p>	<p>TOTAL DOLLARS</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1532</td> </tr> </table>	1532
1532		

NOTES and CALCULATIONS:

CONCLUSION

LOCATION OF SELECTED FIELD

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

What county is the selected winter wheat field in? _____

OFFICE USE--
COUNTY FIPS CODE

0021

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

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

RESPONDENT	1 Operator/manager/partner 2 Spouse 3 Accountant/bookkeeper 4 Other	CODE 0101
		Respondent's name [if code 3 or 4]	_____
Phone	() _____		
RECORDS USE			
Did the respondent use farm/ranch records to report fertilizer data?	YES = 1		0107
Did the respondent use farm/ranch records to report pesticide data?	YES = 1		0108
SUPPLEMENTS USED			NUMBER
Record the total number of each type of supplement used to complete this interview.	FERTILIZER APPLICATIONS		0113
	PESTICIDE APPLICATIONS		0114
	FIELD OPERATIONS		0115
ENDING TIME [MILITARY]			MILITARY TIME 0005
DATE:			MM DD YY 0007
ENUMERATOR _____			ENUMERATOR ID 0098
			EVALUATION 0100