NATIONAL
AGRICULTURAL **AGRICULTURAL RESOURCE MANAGEMENT STUDY**
STATISTICS **WINTER WHEAT PRODUCTION**
SERVICE **PRACTICES REPORT**
for 2000

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

ERS
ECONOMIC RESEARCH SERVICE

VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
7	_ _ _ _ _ _ _ _ _	01	___ ___	0	000	00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMPLETE	0910
5 - OUT OF SCOPE	
8 - REFUSAL	
9 - INAC./INCOMPL.	
OPTIONAL	0002
OPTIONAL	0003

INTRODUCTION
[*Introduce yourself, and ask for the operator. Rephrase in your own words.*]

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

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

H H M M

BEGINNING TIME 0004
[*MILITARY*] **BEGTI**

SCREENING BOX
0006
SCRN

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

OFFICE USE
Completion Code 0008
3 = ZERO TARGET

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

POID _ _ _ _ _ _ _ _ _	**POID** _ _ _ _ _ _ _ _ _
PARTNER NAME	*PARTNER NAME*
ADDRESS	*ADDRESS*
CITY STATE ZIP PHONE NUMBER	*CITY STATE ZIP PHONE NUMBER*
POID _ _ _ _ _ _ _ _ _	**POID** _ _ _ _ _ _ _ _ _
PARTNER NAME	*PARTNER NAME*
ADDRESS	*ADDRESS*
CITY STATE ZIP PHONE NUMBER	*CITY STATE ZIP PHONE NUMBER*

A   WINTER WHEAT FIELD SELECTION   A

1. **How many acres of winter wheat did this operation plant
   for the 2000 crop year?**
   > ▸ *If no acres planted, review Screening Survey Information Form.*
   >   *Make notes, then go to item 4 of **Conclusion**.*
   > ▸ *For Winter Wheat, record acres planted Fall/Winter 1999 for 2000 crop year.*] . . . .

   **TOTAL
   PLANTED ACRES**

0019
A0100

3. I will follow a simple procedure to make a random selection from the
   winter wheat fields planted for the 2000 crop.

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

   **TOTAL NUMBER OF
   FIELDS PLANTED**

0020
A0300

   [*If only 1 field, enter 1
   and 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 make sure item 3 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	FIELD NAME, NUMBER OR DESCRIPTION
1	10
2	11
3	12
4	13
5	14
6	15
7	16
8	17
9	18

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.
   If only 1 field, enter 1*.] . . . .

   **SELECTED FIELD
   NUMBER**

0021
A0500

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

   **OFFICE USE
   OY Field Substituted**

0022
A0600

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

ACRES

1. **How many acres of winter wheat did this operation plant in this field for the 2000 crop?** . . . .

1135
B0100

YEAR

5. **What year did you start operating this field?** . . . .

1136
B0500

CODE

   a. Do you EXPECT to be operating this field for the next 5 years (through the 2005 crop year)? . . . . **YES = 1**

1137
B05a0

YYYYMMDD

7. **On what date was this field planted?** . . . .

1138
B0700

CODE

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

1	Purchased?
2	Homegrown or traded?
3	Both?

. . . .

1139
B1200

CODE

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

1140
B2100

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

1 **How many acres in the winter wheat field were** (will be)--		**2** **What yield per acre did you get** (do you expect to get) **for--** **UNITS PER ACRE**	**3** **UNIT CODES** 1=POUNDS 2=CWT 3=TONS 4=BUSHELS
	ACRES		
a. harvested for grain?	1141 **B22a1**	1142 **B22a2**	1143 **B22a3**
b. harvested for silage or green chop?	1144 **B22b1**	1145 **B22b2**	**TONS**
c. harvested for seed for planting?	1146 **B22c1**	1147 **B22c2**	1148 **B22c3**
d. abandoned?	1149 **B22d1**		
e. used for some other purpose?	1150 **B22e1**		

POUNDS PER BUSHEL

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

1551
B22f0

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

CROP CODE LIST *for item 26* 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 ***No crop planted*** *during this period*
	31 Sweetpotatoes		

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

1 **What crop was PLANTED on this field in--**			**2** **Was this crop irrigated?**
	CROP NAME	**CROP CODE**	**YES = 1**
b. **SPRING/SUMMER** of 1999? . .		1152 **B26b1**	1153 **B27b2**
c. **FALL** of 1998?		1154 **B26c1**	1155 **B26c2**
d. **SPRING/SUMMER** of 1998? . .		1156 **B26d1**	1157 **B26d2**
e. **FALL** of 1997?		1158 **B26e1**	1159 **B26e2**
f. **SPRING/SUMMER** of 1997? . .		1160 **B26f1**	1161 **B26f2**

1 27. **In 2000, did your land-use practices for this field include--**	**2** **In what year were the** (*column 1*) **established in this field?**	[*If* (*column 1*) *were established before operator began operating this field, enter* **code 1**.]	**3** **In 2000, did** (*or will*) **the Federal or State government pay an annual rental payment for keeping this conservation practice in place?**
CODE	**YEAR**		[*YES=1*]
a. terraces? . . . . **YES = 1** 1162 **B27a1**	1163 **B27a2**	1164 **B27aX**	
b. temporary or permanent levees? **YES = 1** 1165 **B27b1**	1166 **B27b2**	1167 **B27bX**	
c. grassed waterways? . . . . **YES = 1** 1168 **B27c1**	1169 **B27c2**	1170 **B27cX**	1171 **B27c3**
d. filter strips or riparian buffers on or adjoining the field? . . . . . **YES = 1** 1172 **B27d1**	1173 **B27d2**	1174 **B27dX**	1175 **B27d3**
e. contour farming? . . . . **YES = 1** 1176 **B27e1**			
f. strip cropping? . . . . **YES = 1** 1177 **B27f1**			
g. underground outlets such as tile drainage? . . . . **YES = 1** 1178 **B27g1**			
h. other drainage channels or diversions? . . . . **YES = 1** 1179 **B27h1**			

CODE

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

| 1180 |
| **B2800** |

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

| 1181 |
| **B2900** |

30. **In 2000, 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**

| 1182 |
| **B3000** |

31. **In 2000, 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**

| 1183 |
| **B3100** |

32. **During 2000, did any formal plan of the following types cover this field** **and, if so, in what year was the plan implemented?** (*"Formal plan" is a written plan prepared in accordance with Federal, State, or Conservation district standards.*)	**CODE**	**YEAR IMPLEMENTED**
a. Conservation plan specifying practices to reduce soil erosion? . . . **YES=1**	1184 **B32a1**	1185 **B32a2**
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? . . . . **YES=1**	1186 **B32b1**	1187 **B32b2**
c. Nutrient management plan specifying practices for land application of manure only? . . . . **YES=1**	1188 **B32c1**	1189 **B32c2**
d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? . . . **YES=1**	1190 **B32d1**	1191 **B32d2**
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? . . . . **YES=1**	1192 **B32e1**	1193 **B32e2**

33. **Was the winter wheat crop on this field covered by**
Crop Insurance in 2000?

CODE

| 1194 |
| **B3300** |

     ☐   **YES** -   [*Enter code 1 and continue.*] . . . . **YES=1**
     ☐   **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**

| 1195 |
| **B33a0** |

b. **Buy-up insurance** for higher levels of yield and price protection
(*such as 65% of yield and 100% price*). . . . . **YES=1**

| 1196 |
| **B33b0** |

c. **Federal Revenue insurance** include Income Protection (IF),
Crop Revenue Coverage (CRC), and Revenue Assurance (RA). . . . . **YES=1**

| 1197 |
| **B33c0** |

d. **Other Federal Crop insurance**
(*Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.*) . . . . **YES=1**

| 1198 |
| **B33d0** |

e. **Other Private Crop insurance**
(*Hail, wind, freeze, etc.*) . . . . **YES=1**

| 1199 |
| **B33e0** |

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

1. **Were commercial FERTILIZERS applied to this field for the 2000 winter wheat crop?** . . . . **YES=1**

	CODE	EDIT TABLE
1200	**C0100**	0201

2. [*If COMMERCIAL fertilizers were applied, continue, else go to item 7.*]

3. **How many trips were made across this field to apply commercial fertilizers for the 2000 crop** (*include applications made by airplanes and commercial applicators*)**?** . . . . . .

NUMBER
1201
C0300

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

CHECK LIST		
INCLUDE	**EXCLUDE**	
☐ Custom applied fertilizers	☐ Micronutrients	
☐ Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999	☐ Unprocessed manure	
☐ Commercially prepared manure	☐ Fertilizer applied to previous crops in this field	

	T-TYPE	TABLE
	2	**001**
LINE 99	OFFICE USE LINES IN TABLE	0213

L I N E	2 → → → MATERIALS USED [*Enter percentage analysis or actual pounds of plant nutrients applied per acre.*] [*Show Common Fertilizers in Respondent Booklet.*] N Nitrogen	P₂O₅ Phosphate	K₂O Potash	3 What quantity was applied per acre? [*Leave this column blank if actual nutrients were reported.*]	4 [*Enter material code.*] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall Before seeding 2 In the spring Before seeding 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
01	0205	0206	0207	0208	0209	0210	0211	0212
02								
03			***Data entered in this table are in the "WWT00F" file.***					
04			***See data dictionary for variable names.***					
05								
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	TABLE	LINE
0	**000**	**00**

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

T-TYPE 0	TABLE 000	LINE 00

UNIT CODES
1=POUNDS
2=CWT.
4=BUSHELS

	UNITS PER ACRE	

7. **What was your yield goal** (*or expected yield*) **for this field?** . . . .

1202		1203	
	C0701		**C0702**

CODE

8. **Was a soil test for phosphorus performed on this winter wheat field in 1999 or 2000 for the 2000 crop?** . . . . **YES = 1**

1204	
	C0800

    a.   [*If phosphorus test done, ask--*]

POUNDS PER ACRE

       How many pounds of phosphorus (*per acre*) **were recommended** (*by the phosphorus test*)**?** . . . .

1205	
	C08a0

CODE

9. **Was a soil test for nitrogen performed on this winter wheat field in 1999 or 2000 for the 2000 crop?** . . . . **YES = 1**

1206	
	C0900

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

POUNDS PER ACRE

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

1207	
	C09a0

10. [***Enumerator Action: Refer to the Fertilizer Table, column 2.***
If nitrogen (N) *was applied, complete items 11 and 12.*
If NO nitrogen applied, skip to item 13.]

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

CODE

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

1208	
	C11a0

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

1209	
	C11b0

    c.   Crop consultant recommendation? . . . . **YES = 1**

1210	
	C11c0

    d.   Fertilizer dealer recommendation? . . . . **YES = 1**

1211	
	C11d0

    e.   Extension Service recommendation? . . . . **YES = 1**

1212	
	C11e0

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

1213	
	C11f0

12. **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**

1214	
	C1200

13. Was a **plant tissue test** performed on this field in 1999 or 2000 for the 2000 winter wheat crop? . . . . **YES = 1**

1215	
	C1300

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

CODE

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

1216
C1500

a. [*If no lime applied, go to item 16–else continue.*]

YEARS

1217
C15a0

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

TONS PER ACRE

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

1218
C15b0

CODE

1219

16. **Was sulfur applied to this field for the 2000 crop?** . . . . YES = 1 **C1600**

a. [*If sulfur applied, ask--*]

POUNDS PER ACRE

1220

How many pounds of sulfur were applied per acre? **C16a0**

CODE

1221

17. **Was gypsum applied to this field for the 2000 crop?** . . . . YES = 1 **C1700**

1222

18. **Were micronutrients applied to this field for the 2000 crop?** . . . . YES = 1 **C1800**

a. [*If micronutrients applied, ask--*]

1223

Did the micronutrients include **zinc**? . . . . YES = 1 **C18a0**

19. **Was manure applied to this field for the 2000 winter wheat crop?**
(***Exclude*** *commercially prepared manure.*) **CODE**

1224

☐ **YES** - [*Enter code 1 and continue.*] **C1900**
☐ **NO** - [*Go to **Section** D.*]

ACRES

1225

a. How many acres was manure applied to? **C19a0**

	TONS PER ACRE	**OR**	**TOTAL TONS**
	1227		1226
b. What was the total amount of manure applied to this field?	**C19b1**		**C19b2**
	OR		**OR**
	GALLONS PER ACRE	**OR**	**TOTAL GALLONS**
	1229		1228
	C19b3		**C19b4**

MILES

1230

c. What is the hauling distance between the manure storage and the manured field? **C19c0**

NUMBER

1231

d. How many trips did it take to complete the manure application to the entire field? **C19d0**

e. What was the percent of manure applied--? **PERCENT**

1232

(1) in the fall before planting? . . . . + **C19e1**

1233

(2) in the spring before planting? . . . . + **C19e2**

1234

(3) after planting? . . . . + **C19e3**

100%

manure–*continued*

f.   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

1235

C19f0

g.   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

1236

C19g0

h.   Was the manure--

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

. . . .

CODE

1237

C19h0

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

1238

C2000

a.   [*If YES, ask*--]
What basis was used to determine these manure application rate restrictions--

CODE

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

1239

C20a1

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

1240

C20a2

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 2000 winter wheat crop.**

   Were any herbicides, insecticides, fungicides or other chemicals used on the winter wheat field for the 2000 crop? . . . . **YES = 1**

	CODE	EDIT TABLE
1241	**D0100**	0301

   [*Probe for applications made in the fall of 1999 (and those made earlier if this field was fallow).*]
   [*If no pesticides applied, go to Section* **E**.]

		T-TYPE	TABLE
		3	**001**
Include defoliants, fungicides, herbicides, insecticides and pesticides. *Include* biological and botanical pesticides.	*Exclude* fertilizers reported earlier and seed treatments.	**LINE 99** OFFICE USE LINES IN TABLE	0319

NOTES	L I N E	2 What products were applied to this field? [*Show product codes from Respondent Booklet.*]	3 Was this product bought in liquid or dry form? [*Enter L or D.*]	4 Was this part of a tank mix? [*If tank mix, enter line number of first product in mix.*]	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	6 How much was applied per acre per application?	OR 7 What was the total amount applied per application in this field?	8 [*Enter unit code.*] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Ounces 30 Grams
	01	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	02	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	03							
	04			*Data entered in the table are in the "WWT00P" file. See data dictionary for variable names.*				
	05							
	06							
	07							
	08	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	09	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	10	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	11	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	12	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	13	0305		0306	0307	0308 • __ __	0309 • __ __	0310
	14	0305		0306	0307	0308 • __ __	0309 • __ __	0310

2. [*For pesticides not listed in Respondent Booklet, specify --*]

LINE	Pesticide Type (*Herbicide, Insecticide Fungicide, etc.*)	EPA No. or Tradename and Formulation	Form Purchased (Liquid or Dry)	Where Purchased [*Ask only if EPA No. cannot be reported.*]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

D   PESTICIDE APPLICATIONS---SELECTED FIELD   D

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┌─────────────────────────────────────────────────────────────┐
│            APPLICATION CODES for column 9                     │
│ 1 Broadcast, ground without incorporation   6 Chisel/injected or knifed in │
│ 2 Broadcast, ground with incorporation      7 Banded in or over row │
│ 3 Broadcast, by air (Aerial application)    8 Foliar or directed spray │
│ 4 In seed furrow                            9 Spot treatment │
│ 5 In Irrigation water                                         │
└─────────────────────────────────────────────────────────────┘
```

↓

L I N E	9 How was this product applied? [Enter code from above.]	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? [Show Target Pest codes from Respondent Booklet.]	13 Prior to this application was this years pest problem-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	14 Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee / Other?
01	0311	0312 • __	0313	0314	0315	0316
02	0311	0312 • __	0313	0314	0315	0316
03						
04			*Data entered in this table are in the "WWT00P" file.*			
05			*See data dictionary for variable names.*			
06						
07						
08						
09	0311	0312 • __	0313	0314	0315	0316
10	0311	0312 • __	0313	0314	0315	0316
11	0311	0312 • __	0313	0314	0315	0316
12	0311	0312 • __	0313	0314	0315	0316
13	0311	0312 • __	0313	0314	0315	0316
14	0311	0312 • __	0313	0314	0315	0316

T-TYPE	TABLE	LINE
0	000	00

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

1. **Now I have some questions about your pest management decisions and practices used on this field for the 2000 winter wheat crop. By pests, we mean WEEDS, INSECTS and DISEASES.**

2. **Let's begin with questions about scouting this field for pests.**

1 **Was this winter wheat field scouted for--** YES=1		② [*If* **YES**, *ask*--] **Who did the majority of the scouting for** [*column 1*]-- 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?	1242 **E02a1**	1243 **C02a2**
b. insects?	1244 **E02b1**	1245 **E02b2**
c. diseases?	1246 **E02c0**	

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

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

CODE

1247
E0500

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 9.*]

CODE

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

1248
E0700

[*If item 7 = YES, ask--*]
Did you decide to apply herbicides BEFORE weeds emerged on this winter wheat field based on--

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

1249
E07a0

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

1250
E07b0

c. recommendations from a *chemical dealer*? . . . . **YES = 1**

1251
E07c0

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

1252
E07d0

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

1253
E0800

[*If item 8 = YES, ask--*]
Did you decide to apply herbicides AFTER weeds emerged on the winter wheat field based on--

CODE

a. a routine treatment? . . . . **YES = 1**

1254
E08a0

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

1255
E08b0

c. recommendations from a *chemical dealer*? . . . . **YES = 1**

1256
E08c0

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

1257
E08d0

9. **[Enumerator Action:** *Were* **INSECTICIDES** *used* **(***pesticide product codes 1000-2000***), in *Section* D, *item 1 column 2*?]**

     ☐ **YES** - [*Continue.*]   ☐ **NO** - [*Go to item 11.*]

10. **Did you decide to apply insecticides to this winter wheat field based on--**   CODE

a. a preventative schedule? . . . . **YES = 1**

1258
E10a0

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

1259
E10b0

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

1260
E10c0

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

1261
E10d0

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

1262
E10e0

E   PEST MANAGEMENT PRACTICES--SELECTED FIELD   E

OTHER PEST MANAGEMENT PRACTICES

CODE

11. **Was protection of beneficial organisms a factor in your pest control decisions for this field?** . . . . YES = 1

1263   E1100

12. **Did you apply or release any beneficial organisms to control pests in this field?** . YES = 1

1264   E1200

13. **Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field?** [*Exclude* chemigation.] . . . . YES = 1

1265   E1300

14. **Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field?** . . . . YES = 1

1266   E1400

15. **Did you clean equipment and implements after completing field work to reduce the spread of pests from this field?** . . . . YES = 1

1267   E1500

17. **Did you consider pest resistance when selecting which variety to plant in this field?** . . . . YES = 1

1268   E1700

18. **Did you treat the seed used in this field or purchase seed that was treated for disease control?** . . . . YES = 1

1269   E1800

19. **Did you adjust planting or harvesting dates to control pests?** . . . . YES = 1

1270   E1900

20. **Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field?** . . . . YES = 1

1271   E2000

21. **Did you alternate pesticides** (*use pesticides with different mechanisms of action*) **to keep pests from becoming resistant to pesticides in this field?** . . . . YES = 1

1272   E2100

22. **Did you adjust row spacing or plant density to control pests in this field?** . . . . . . YES = 1

1273   E2200

23. **Did you rotate crops on this field during the past 3 years to control pests?** . . . . . YES = 1

1274   E2300

26. **Were grazing dates adjusted on this field to reduce or help control pests?** . . . . **YES = 1**

1275	
	E2600

28. **Did you do any other type(s) of pest management to control pests in this field?** . . . . **YES = 1**

1276	
	E2800

   a.　[*If* **YES***, ask--*]

What did you do? [*List other activities.*]

_____ . . . .

1277	
	E28a1

_____ . . . .

1278	
	E28a2

_____ . . . .

1279	
	E28a3

PEST MANAGEMENT INFORMATION

29. [*Show Pest Management Information Sources code List.*]

What was your primary outside source of information on pest management recommendations for the 2000 winter wheat crop?

PEST MANAGEMENT INFORMATION SOURCES
CODE LIST [*Choose one.*]

```
1   Extension Advisor, Publications or Demonstrations
        (County, Cooperative or University)

2   Farm Supply or Chemical Dealer

3   Commercial Scouting Service

4   Independent Crop Consultant or Pest Control Advisor

5   Other Growers or Producers

6   Producer Associations, Newsletters or Trade Magazines
7   Electronic Information Services
        (DTN, Internet, World Wide Web, etc.)

8   Other - (Specify _____ )

9   None - Operator used no outside information source.
```

[*Choose one source and enter code.*]

1280	
	E2900

PEST MANAGEMENT TRAINING

30. **Have you (the operator) attended any training session on pest identification and management since October 1, 1999?** . . . . **YES = 1**

CODE

1281	
	E3000

OFFICE USE

0340	**ECC**

2. **Including custom operations, I need to list field work performed by machines on this field for the 2000 winter wheat crop. Please...**
   ‣ Begin with the first field operation after harvest of previous crop, (If fallow during 1999, list operations starting with fall 1998.)
   ‣ List the operations in order *through seeding*, and
   ‣ Maintain the order of tandem hook-ups.

CHECK LIST

Include all field work using machines for--
- ☐ Land Forming
- ☐ Tillage
- ☐ Preparing for Irrigation before seeding
- ☐ Planting

Exclude
- ☐ Lime & Gypsum applications
- ☐ Fertilizers & Pesticides applications
- ☐ Operations that occur after planting
- ☐ Harvesting **&** Hauling

CODES FOR COLUMN 5
1 You (The Operator)?
2 Partner?
3 Unpaid Worker?
4 Paid Part-time or Seasonal Worker?
5 Paid Full-time Worker?
6 Custom Operator?

↓

2 SEQUENCE N0.	3 What operation or equipment was used on this field?	4 [*Record machine code from Respondent Booklet.*] CODE	5 Who was the machine operator-- [*Enter code from above.*]	[*If CUSTOM (column 5 is code 6) skip columns 9 & 10.*]		11 In what month and year was this operation done?
				9 How many acres were covered? 1/ ACRES	10 How many acres were covered per hour? ACRES PER HOUR	MM YY
0351		0352	0353	0357 •___	0358 •___	0359 ___ ___
0361		0362	0363	0367 •___	0368 •___	0369 ___ ___
0371						
0381						
0391	*Data entered in this table are in the "WWT00P" file.*					
0401	*See data dictionary for variable names.*					
0411						
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 ___ ___

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

OFFICE USE
0032

CODE

8. **Was there (will there be) a yield monitor on the equipment used to harvest this winter wheat field?** . . . . **YES = 1** | 1282 **F0800**

    a. [*If YES, ask--*]

       Was (will there be) a yield map produced from this harvest using information from the yield monitor? . . . . **YES = 1** | 1283 **F08a0**

       (1) [*If item 8a is YES, ask--*]

          Was a custom service/consultant hired for this activity? . . . . **YES = 1** | 1284 F08a1

9. **Regardless of when done, have the soil properties of this field been mapped** (*by grid or otherwise*)**?**
[*Mapped is intended to mean that a GPS unit was used to geo-reference the location of different soil properties.*] . . . . **YES = 1** | 1285 F0900

10. **Was this field remotely sensed** (*by airplane or satellite*) **and an image produced either before or during the 2000 growing season?** . . . . **YES = 1** | 1286 F1000

    a. [*If YES, ask--*]

       Was a custom service/consultant hired for this activity? . . . . **YES = 1** | 1287 F10a0

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

    a. fertilization or liming? . . . . **YES = 1** | 1288 F11a0
       (1) [*If YES, ask--*]

          Was a custom service/consultant hired for this activity? . . . . **YES = 1** | 1289 F11a1

    b. seeding? . . . . **YES = 1** | 1290 F11b0
       (1) [*If YES, ask--*]

          Was a custom service/consultant hired for this activity? . . . . **YES = 1** | 1291 F11b1

    c. pesticide applications? . . . . **YES = 1** | 1292 F11c0
       (1) [*If YES, ask--*]

          Was a custom service/consultant hired for this activity? . . . . **YES = 1** | 1293 F11c1

G   **IRRIGATION** --- SELECTED FIELD   **G**

ACRES

1. **How many acres in this field were irrigated
   for the 2000 winter wheat crop?** . . . .

1294
G0100

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

2. **Now, I have some questions about the irrigation of
   this field for the 2000 winter wheat crop.**

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

      SYSTEM TYPE CODE

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

1295
G02a1

   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**	**TOTAL ACRE FEET**
1296		1297
G02b1		G02b3

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

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

       TOTAL HOURS

1298
G02b5

   (2) How many gallons per minute were applied? . . . .

       GALLONS PER MINUTE

1299
B02b7

   PERCENT

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

1300
G02c1

   NUMBER

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

1301
G02d1

   CODE

3. **Was any water purchased to irrigate this field?**
   (***Include** landlord's share and purchases from all sources.*) . . . . **YES = 1**

1302
G0300

   a. [*If water purchased, ask--*]

      PERCENT

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

1303
G03a0

   CODE

9. **Were wells used to supply irrigation water for this field?** . . . . **YES = 1**

1304
G0900

   RUNOFF CODES

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

   CODE

11. **Is the runoff from this
    field primarily--** . . . .

1305
G1100

J   OPERATOR and OPERATION CHARACTERISTICS   J

1. In 2000, was this operation's LEGAL STATUS--

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

. . . . .

CODE
0035
J0100

2. In 2000, what was your (*the operator's*) major occupation? . . . .

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

. . . .

CODE
0036
J0200

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

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

. . . . . .

CODE
0037
J0300

4. In what year did you (*the operator*) **begin making day-to-day decisions for any farm/ranch?** . . . .

YEAR
0038
J0400

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

Considering--
! all crops sold,
! all livestock, poultry (*including commercial broilers*), and products (*milk, eggs, etc.*) sold,
! all sales of crops, livestock or poultry, produced under contract,
! all sales of any miscellaneous agricultural products,
! all government payments received,
! landlord's share of government payments and crops sold in 2000;

What code represents the total gross value of sales you expect for this operation in 2000?

- [ ] 1   Less than $1,000
- [ ] 2 $ 1,000 -- $ 2,499
- [ ] 3 $ 2,500 -- $ 4,999
- [ ] 4 $ 5,000 -- $ 9,999
- [ ] 5 $ 10,000 -- $ 19,999
- [ ] 6 $ 20,000 -- $ 24,999
- [ ] 7 $ 25,000 -- $ 39,999
- [ ] 8 $ 40,000 -- $ 49,999
- [ ] 9 $ 50,000 -- $ 99,999
- [ ] 10 $ 100,000 -- $ 249,999
- [ ] 11 $ 250,000 -- $ 499,999
- [ ] 12 $ 500,000 -- $ 999,999
- [ ] 13 $ 1,000,000 and over

CODE
0039
J0500

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

CODE
0040
J0600

FARM TYPE CODES

1	GRAINS and OILSEEDS	8	BEEF CATTLE
2	TOBACCO	9	DAIRY
3	COTTON	10	HOGS
4	VEGETABLES and MELONS	11	SHEEP, GOATS, WOOL and MOHAIR
5	FRUIT TREE, NUTS and BERRIES	12	EQUINE
6	NURSERY, GREENHOUSE and FLORICULTURE	13	POULTRY and EGGS
		14	AQUACULTURE
7	OTHER CROPS	15	OTHER ANIMALS

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? . . . .

   Field description . . . .

COUNTY NAME	OFFICE USE COUNTY FIPS CODE
COUNTY	0010 Z0100

2. [**ENUMERATOR ACTION:**
   Mark map to indicate where the selected winter wheat field is located.
   Be sure the "X" marked on map is in county identified above.]

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**

CODE
0099 Z0400

RECORDS USE

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

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

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

CODE
0011 Z05a0
0012 Z05b0

SUPPLEMENTS USED

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

	NUMBER
FERTILIZER APPLICATIONS	0041 Z0601
PESTICIDE APPLICATIONS	0042 Z0602
FIELD OPERATIONS	0043 Z0603

RESPONDENT

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

. . . .

CODE
0101 RESP

Respondent's name . . . .

Phone . . . .   (_____) _____

ENDING TIME [*MILITARY*] . . . .

MILITARY TIME H H M M
0005
ENDTI

DATE: . . . .

MM DD YY
0007
DATE

ENUMERATOR NAME _____   . . . .

ENUMERATOR ID
0098
ENUM

EVALUATION
0100
EVAL