AGRICULTURAL RESOURCE MANAGEMENT STUDY
SPRING WHEAT PRODUCTION PRACTICES REPORT
for 1998

VERSION 07	POID _ _ _ _ _ _ _ _ _	TRACT ___ ___	SUBTRACT ___ ___	T-TYPE 0	TABLE 000	LINE 00

CONTACT RECORD		
DATE	TIME	NOTES

R CODES	
3 - COMP 5 - OUT OF SCOPE 8 - REF 9 - INAC./INCOMPL.	0910
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 spring wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Spring 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*] . . . . | 0004 _ _ _ _

☐ [*Verify/update label.*]

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

SCREENING BOX
0006

Office Use Comp Code | 0008

PARTNERS' STRATUM 182 | 0925 _ _ _ | 0926 _ _ _ | 0927 _ _ _ | 0928 _ _ _

PARTNERS: 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   SPRING WHEAT FIELD SELECTION   A

1. **How many acres of spring 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.* . . . .

    **TOTAL
    PLANTED ACRES**

    0024

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

    **What is the TOTAL number of spring 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   **FIELD NAME, NUMBER OR DESCRIPTION**

1 _____	10 _____
2 _____	11 _____
3 _____	12 _____
4 _____	13 _____
5 _____	14 _____
6 _____	15 _____
7 _____	16 _____
8 _____	17 _____
9 _____	18 _____

OFFICE USE

0031

A   **SPRING 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 spring wheat field.
   [*Be sure the operator can identify the selected field.*]

N

↑

B   FIELD CHARACTERISTICS---SELECTED FIELD   B

ACRES

1. **How many acres of spring wheat did this operation plant in the selected field in 1998?**   1751   •___

2. **How many acres in this field were--**   **ACRES**

     a.   owned by this operation?   1752   •___

     b.   rented for CASH?   1753   •___

     c.   SHARE rented?   1754   •___

     d.   used RENT-FREE?   1755   •___

5. [*If any acres in field RENTED, ask*--]   **YEAR**

     What year did you start renting this field?   1756   ___ ___ ___ ___

          CODE

     a.   Do you EXPECT to be renting this same field for the next 5 years (through the 2003 crop year)? . . . . **YES = 1**   1757

7. **When planted, was this field planted with the intention of --** . . . .

| 1 Harvesting for grain? |
| 2 Grazing only? |
| 3 Other uses? |
| (*Specify_____*) |

. . . .   **CODE**   1758

MM DD YY

10. **On what date was this field planted?**   1759   ___ ___ ___ ___ ___ ___

UNIT CODE
1=POUNDS
2=CWT.
4=BUSHELS
25=KERNELS/SEEDS

UNITS PER ACRE

11. **What was the seeding rate per acre the first time this field was seeded?**   1760   •___   1761

13. **Was the source of the spring wheat seed--**

| 1   Purchased? - [*Enter code 1; continue.*] |
| 2   Homegrown or traded?   - [*Enter code 2; continue.*] |
| 3   Both? - [*Enter code 3; continue.*] |

. . . . .   **CODE**   1764

B   FIELD CHARACTERISTICS---SELECTED FIELD   B

CODE

20. **Has harvest of this field been completed?** . . . . **YES = 1**   `1768`

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

1 **How many acres in the spring wheat field were** (will be)--		2 **What yield per acre did you get** (do you expect to get) **for--**	3 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHELS
	ACRES	**UNITS PER ACRE**	
a. harvested for grain?	1769 •____	1770 •____	1771
b. harvested for silage or green chop?	1772 •____	1773 •____	**TONS**
c. harvested for seed for planting?	1774 •____	1775 •____	1776
d. abandoned?	1777 •____		
e. other use?	1778 •____		

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

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

25. **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 on this field?**
	CROP NAME	**CROP CODE**	**YES=1**
a. FALL of 1997?		1779	1780
b. SPRING/SUMMER of 1997? . .		1781	1782
c. FALL of 1996?		1783	1784
d. SPRING/SUMMER of 1996? . .		1785	1786
e. FALL of 1995?		1787	1788
f. SPRING/SUMMER of 1995? . .		1789	1790

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

CODE

     Was crop residue removed from this field by baling or removing straw, burning, etc.? . . . . **YES = 1**   `1791`

B   FIELD CHARACTERISTICS---SELECTED FIELD   B

1		2 In what year were the (*column 1*)'s **established in this field?**	3 How much of the cost of building the (*column 1*)'s **was paid directly by you?**
27. **Did your land-use practices for this field include--**	CODE	YEAR	PERCENT
a. terraces? . . . . **YES = 1**	1792	1793 ___ ___ ___ ___	1794 ___ ___ ___
b. temporary or permanent levees? . **YES = 1**	1795	1796 ___ ___ ___ ___	1797 ___ ___ ___
c. grassed waterways? . . . . **YES = 1**	1798	1799 ___ ___ ___ ___	1800 ___ ___ ___
d. contour farming? . . . . **YES = 1**	1801		
e. strip cropping? . . . . **YES = 1**	1802		
f. underground outlets such as tile drainage? . . . . **YES = 1**	1803		
g. other drainage channels or diversions? (**Include** water furrows) . . . . **YES = 1**	1804		

                                                                                    CODE

28. **Has the Natural Resource Conservation Service or NRCS classified any part of this field as "Highly Erodible"?** . . . . **YES = 1** | 1805 |

29. **Have you been notified by NRCS that this field contains a wetland?** . . . . **YES = 1** | 1806 |

30. **Have you received assistance from NRCS in 1998 for planning or installation of conservation practices or systems on this field?** . . . . **YES = 1** | 1807 |

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** | 1808 |

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

	CODE	EDIT TABLE
1. **Were commercial FERTILIZERS applied to this field for the 1998 spring wheat crop?** [If none, go to item 5.] . . . . YES=1	1809	0201

	TTYPE	TABLE
	2	001

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

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?
	N Nitrogen	P$_2$O$_5$ Phosphate	K$_2$O Potash					ACRES
01	0205	0206	0207	0208	0209	0210	0211	0212 •__
02	0205	0206	0207	0208	0209	0210	0211	0212 •__
03	0205	0206	0207	0208	0209	0210	0211	0212 •__
04	0205	0206	0207	0208	0209	0210	0211	0212 •__
05	0205	0206	0207	0208	0209	0210	0211	0212 •__
06	0205	0206	0207	0208	0209	0210	0211	0212 •__
07	0205	0206	0207	0208	0209	0210	0211	0212 •__
08	0205	0206	0207	0208	0209	0210	0211	0212 •__

T-TYPE	TABLE	LINE
0	000	00

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
   1810

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

   CODE
   1811

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

   CODE
   1812

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

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

   CODE
   1813

   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
   1814

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

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

   CODE
   1815

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

   YEARS
   1816

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

   TONS PER ACRE
   1817
   •__ __

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

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

   CODE
   1818

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

   ACRES
   1819   •__

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

   TOTAL TONS   **OR**   **TOTAL GALLONS**

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

      1820   •__ __   1821

   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
   1822

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

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

   . . . .

   CODE
   1823

   e. Was the manure--

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

   . . . .

   CODE
   1824

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 spring wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 spring 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
1828

OFFICE USE EDIT TABLE
0301

Check List				
Include		**Exclude**		
☐ Defoliants	☐ Fungicides	☐ Fertilizers reported earlier		
☐ Herbicides	☐ Insecticides	☐ Seed Treatments		
☐ All other pesticides				

T-TYPE 3   **TABLE** 001

LINE 99   **OFFICE USE LINES IN TABLE**   0319

NOTES	LINE	2 What products were applied to this field? [*Show product codes from Respondent Booklet.*]	3 Was this product bought in liquid or dry form? [*Enter L or D.*]	4 Was this part of a tank mix? [*If tank mix, enter line number of first product in tank 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	8 [*Enter unit code.*] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
	01	0305		0306	0307	0308 •__ __	0309	0310
	02	0305		0306	0307	0308 •__ __	0309	0310
	03	0305		0306	0307	0308 •__ __	0309	0310
	04	0305		0306	0307	0308 •__ __	0309	0310
	05	0305		0306	0307	0308 •__ __	0309	0310
	06	0305		0306	0307	0308 •__ __	0309	0310
	07	0305		0306	0307	0308 •__ __	0309	0310
	08	0305		0306	0307	0308 •__ __	0309	0310
	09	0305		0306	0307	0308 •__ __	0309	0310
	10	0305		0306	0307	0308 •__ __	0309	0310
	11	0305		0306	0307	0308 •__ __	0309	0310

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 *(Aerial application)*	8 Foliar or Directed spray
4 In Seed Furrow	9 Spot treatments
5 In Irrigation water	

↓

LINE	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? [*Use Target Pest codes from Respondent Booklet.*]	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	0316
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

Notes and Calculations:

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 1998 spring 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 spring wheat field scouted for--**	**YES=1**	**②** [*If* **YES**, *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?	1829	1830
b. insects?	1831	1832
c. diseases?	1833	

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**

   CODE

1834

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.*]

CODE

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

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

1835

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**

1836

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

1837

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

1838

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

1839

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

☐ **YES** - [*Enter code 1 and continue.*] ☐ **NO** - [*Go to item 11.*] . . . . **YES = 1**

1840

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

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

1841

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

1842

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

1843

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

1844

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 spring wheat field based on--**

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

1845

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

1846

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

1847

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

1848

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

1849

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**   `1851` . . . . `1852`

     b.   pesticides alternated from year to year on this field to control pests? (*Use pesticides from different families*) . . . . **YES=1**   `1853` . . . . `1854`

     c.   a biological soil analysis done on this spring wheat field to detect the presence of soil pests, such as insects, diseases or nematodes? . . . . **YES= 1**   `1855`

     d.   beneficial insects considered in selecting and using pesticides on this field? . . . . **YES= 1**   `1856`

     e.   beneficial insects purchased and released in the spring wheat field? . . . . **YES= 1**   `1857`

15. **Were (was)--**   **CODE**

     a.   crops rotated on this field during the last 3 years to control pests? . . . . **YES=1**   `1860` . . . . `1861`

     b.   pest resistant seed varieties used? . . . . **YES=1**   `1862`

     c.   seed treatments done for disease control? . . . . **YES=1**   `1863`

                                                    CODE

     d.   row spacing or plant density adjusted on this field to control pests? . . . . **YES=1**   `1864` . . . . `1865`

     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**   `1866` . . . . `1867`

     f.   water management practices, such as controlled drainage or irrigation scheduling used on this field to control pests? [**Exclude** chemigation.] . . . . **YES=1**   `1868` . . . . `1869`

     g.   grazing dates adjusted on this field to reduce or help control pests? . . . . **YES=1**   `1870`

                                                    CODE

     h.   cleaning the harvesting and tillage implements from this field done to reduce the spread of pests? . . . . **YES=1**   `1871` . . . . `1872`

E   PEST MANAGEMENT PRACTICES--SELECTED FIELD   E

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 spring 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.*]

1873 . . . .

CODE

18. **Have you (the operator) attended any training session on pest identification and management since October 1, 1997?** . . . . **YES = 1**   0338

CODE

19. **Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides?** . . . . **YES = 1**   0339

OFFICE USE

0340

F   **FIELD OPERATIONS ---** SELECTED FIELD   **F**

2. **Including custom operations, I need to list field work performed by machines on this field for the 1998 spring 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 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
- ☐ 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 Applicator? --[*Go to Column 11.*]

---

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 is code 6) skip columns 9-10*]		11 In what month was this operation done? MM YY
				9 How many acres were covered? 1/ ACRES	10 How many acres were covered per hour? ACRES PER HOUR	
0351		0352	0353	0357 .___	0358 .___	0359 __ __
0361		0362	0363	0367 .___	0368 .___	0369 __ __
0371		0372	0373	0377 .___	0378 .___	0379 __ __
0381		0382	0383	0387 .___	0388 .___	0389 __ __
0391		0392	0393	0397 .___	0398 .___	0399 __ __
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 __ __

OFFICE USE
0347

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

F   **FIELD OPERATIONS ---** SELECTED FIELD   **F**

CODE

8. **Was there (will there be) a yield monitor on the equipment used to harvest this spring wheat field?** . . . . **YES = 1** | 1877 |

    [*If YES, ask*--]

    a.   Was (will there be) a yield map produced from this harvest using information from the yield monitor? . . . . **YES = 1** | 1878 |

9. **Regardless of when done, has this field been soil grid-sampled and grid-mapped?** . . . . **YES = 1** | 1879 |

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

    a.   fertilization or liming? . . . . **YES = 1** | 1880 |

    b.   seeding? . . . . **YES = 1** | 1881 |

    c.   pesticide applications? . . . . **YES = 1** | 1882 |

G   IRRIGATION---SELECTED FIELD   G

ACRES

1. **How many acres in this field were irrigated for the 1998 spring wheat crop?**
   [*If none, go to Conclusion.*] . . . .

   1883   • ___

2. **Now, I have some questions about irrigation systems and water used on this field for the 1998 spring wheat crop.**

   a. What type(s) of irrigation system(s) were used to irrigate this field?
   [*Use **System Type Codes** . Enter **System Type Code** for system covering the most field acres.*] . . . .

   SYSTEM TYPE CODE
   1884

   b. What was the total number of inches of water per acre applied to this field during the entire growing season?
   (***Include** ALL water used from both on-farm and off-farm sources.*) . . . .

   INCHES PER ACRE
   1885

   (1) [*If operator cannot answer item 2b, ask--; else go to item 2c.*] What is the total number of hours that water was applied to this field during the growing season? . . . .

   TOTAL HOURS
   1886

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

   GALLONS PER MINUTE
   1887

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

   PERCENT
   1888

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

   NUMBER
   1889

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

   CODE
   1890

   [*If YES, ask--*]

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

   PERCENT
   1891

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

   CODE
   1892

   [*If YES, ask--*]

   e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1998? . . . .

   TOTAL DOLLARS
   1893

CONCLUSION

LOCATION OF SELECTED FIELD

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

   COUNTY NAME **OFFICE USE--COUNTY FIPS CODE**

   c. **What county is the selected spring wheat field in?** . . . . | | | 0010 |

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

   CODE

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** | 0099 |

RECORDS USE

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

   a. [**fertilizer** *data?*] . . . . **YES = 1** | 0011 |

   b. [**pesticide** *data?*] . . . . **YES = 1** | 0012 |

SUPPLEMENTS USED

NUMBER

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

   FERTILIZER APPLICATIONS | 0020 |

   PESTICIDE APPLICATIONS | 0021 |

   FIELD OPERATIONS | 0022 |

RESPONDENT

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

CODE | 0101 |

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

Phone . . . . (_____) _____

ENDING TIME [*MILITARY*] . . . .

MILITARY TIME | 0005 | __ __ __ __

DATE: . . . .

MM DD YY | 0007 | __ __ __ __ __ __

ENUMERATOR NAME _____ . . . .

ENUMERATOR ID | 0098 |

EVALUATION | 0100 |