



**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  
SORGHUM PRODUCTION  
PRACTICES REPORT  
for 1998**

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

|               |                   |              |                 |             |              |            |
|---------------|-------------------|--------------|-----------------|-------------|--------------|------------|
| VERSION<br>11 | POID<br>_ _ _ _ _ | TRACT<br>_ _ | SUBTRACT<br>_ _ | T-TYPE<br>0 | TABLE<br>000 | LINE<br>00 |
|---------------|-------------------|--------------|-----------------|-------------|--------------|------------|

| 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 to produce sorghum and need your help to make the information as accurate as possible. Authority for collection of information on the Sorghum 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]** .....

*[Verify/update label.]*

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

**SCREENING BOX**

|                                      |                                   |                                   |                                   |                                   |
|--------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Office Use<br>Comp Code              | <input type="text" value="0008"/> |                                   |                                   |                                   |
| <b>PARTNERS'<br/>STRATUM<br/>182</b> | <input type="text" value="0925"/> | <input type="text" value="0926"/> | <input type="text" value="0927"/> | <input type="text" value="0928"/> |

|                             |                |                             |
|-----------------------------|----------------|-----------------------------|
| <b>PARTNERS:</b>            | 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 **SORGHUM FIELD SELECTION**

**A**

1. **How many acres of sorghum 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 sorghum fields planted for the 1998 crop.

**What is the TOTAL number of sorghum 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 |
|------|



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

1. How many acres of sorghum did this operation plant in the selected field in 1998? ..... 

|              |       |
|--------------|-------|
| <b>ACRES</b> |       |
| 2051         | _____ |

2. How many acres in this field were--

a. owned by this operation? ..... 

|              |       |
|--------------|-------|
| <b>ACRES</b> |       |
| 2052         | _____ |

b. rented for CASH? ..... 

|      |       |
|------|-------|
| 2053 | _____ |
|------|-------|

c. SHARE rented? ..... 

|      |       |
|------|-------|
| 2054 | _____ |
|------|-------|

d. used RENT-FREE? ..... 

|      |       |
|------|-------|
| 2055 | _____ |
|------|-------|

5. [If any acres in field RENTED, ask--]  
What year did you start renting this field? ..... 

|             |       |
|-------------|-------|
| <b>YEAR</b> |       |
| 2056        | _____ |

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

|             |       |
|-------------|-------|
| <b>CODE</b> |       |
| 2057        | _____ |

10. On what date was this field planted? ..... 

|                 |       |
|-----------------|-------|
| <b>MM DD YY</b> |       |
| 2059            | _____ |

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

|                  |  |
|------------------|--|
| <b>UNIT CODE</b> |  |
| 1=POUNDS         |  |
| 2=CWT.           |  |
| 4=BUSHEL         |  |
| 25=KERNELS/SEEDS |  |

**UNITS PER ACRE**

2060 \_\_\_\_\_ 2061 \_\_\_\_\_

a. Was the sorghum seed-- ... 

|             |       |
|-------------|-------|
| <b>CODE</b> |       |
| 2062        | _____ |

1 Drilled?

2 Planted in conventional rows?

3 Broadcast on this field?

b. [If DRILLED or PLANTED, ask--]  
What was the row width in inches? ..... 

|               |       |
|---------------|-------|
| <b>INCHES</b> |       |
| 2063          | _____ |

13. Was the source of the sorghum seed--

1 Purchased? - [Enter code 1; continue.]

2 Homegrown or traded? - [Enter code 2; go to item 20.]

3 Both? - [Enter code 3; continue.]

|             |       |
|-------------|-------|
| <b>CODE</b> |       |
| 2064        | _____ |

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

16. [If any seed purchased, ask--; else go to item 20.]

**Which type of sorghum seed variety was used--**

a. in this field in 1998?

[Use Seed Type Code List.] . . . . .

CODE  
2065

b. in this field in 1997?

[Use Seed Type Code List.

Leave blank if different commodity planted in 1997.] . . . . .

2066

**SEED TYPE - SORGHUM**

6 DID NOT plant a resistant variety

17. [If used RESISTANT seed, ask--]

**Seed varieties may offer several benefits.****Did you choose the resistant seed variety used on this field primarily to--**

- 1 Increase yields through improved pest (*weed, insect or disease*) control?
- 2 Decrease pesticide input costs?
- 3 Increase planting flexibility, (*for example, easier to rotate crops, reduce carryover, use reduced tillage or no-till systems, etc.*)?
- 4 Adopt more environmentally friendly practices?
- 5 For some other reason(s)?

CODE

2067

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

CODE

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

2068

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

| 1  | 2  |                | 3           |
|--|--|----------------|-------------|
| How many acres in the sorghum field were (will be)-- | What yield per acre did you get (do you expect to get) for-- |                | UNIT CODE   |
|  | ACRES  | UNITS PER ACRE |             |
| a. harvested for grain? .....                        | 2069 . ____  | 2070 . ____    | 2071        |
| b. harvested for silage or green chop? .....         | 2072 . ____  | 2073 . ____    | <b>TONS</b> |
| c. harvested for seed for planting? .....            | 2074 . ____  | 2075 . ____    | 2076        |
| d. abandoned? .....                                  | 2077 . ____  |                |             |
| e. other use? .....                                  | 2078 . ____  |                |             |

**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 <b>No crop planted during this period</b> |

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 |
| a. FALL of 1997? .....                   |  | 2079      |
| b. SPRING/SUMMER of 1997? ..             |  | 2081      |
| c. FALL of 1996? .....                   |  | 2083      |
| d. SPRING/SUMMER of 1996? ..             |  | 2085      |
| e. FALL of 1995? .....                   |  | 2087      |
| f. SPRING/SUMMER of 1995? ..             |  | 2089      |

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.? ..... YES = 1

CODE

2091

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

| 1   | 2  | 3   |
|---|--|---|
| 27. Did your land-use practices<br>for this field include--                               | In what year were the<br>(column 1)'s<br>established in this<br>field? | How much of the<br>cost of building the<br>(column 1)'s was<br>paid directly<br>by you? |
| CODE  | YEAR   | PERCENT   |
| a. terraces? . . . . . YES = 1  | 2092<br>_____  | 2093<br>_____   |
| b. temporary or permanent levees? . YES = 1   | 2095<br>_____  | 2096<br>_____   |
| c. grassed waterways? . . . . . YES = 1   | 2098<br>_____  | 2099<br>_____   |
| d. contour farming? . . . . . YES = 1   | 2101   | 2100<br>_____   |
| e. strip cropping? . . . . . YES = 1  | 2102   |   |
| f. underground outlets such as<br>tile drainage? . . . . . YES = 1                        | 2103   |   |
| g. other drainage channels or<br>diversions? ( <i>Include water furrows</i> ) . . YES = 1 | 2104   |   |

28. Has the Natural Resource Conservation Service  
or NRCS classified any part of this field as "Highly Erodible"? . . . . . YES = 1 CODE  
2105
29. Have you been notified by NRCS that this field contains a wetland? . . . . . YES = 1 2106
30. Have you received assistance from NRCS in 1998 for planning  
or installation of conservation practices or systems on this field? . . . . . YES = 1 2107
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 2108

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

1. Were commercial FERTILIZERS applied to this field for the 1998 sorghum crop? [If none, go to item 5.] . . . . . YES=1

|      |            |
|------|------------|
| CODE | EDIT TABLE |
| 2109 | 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 → → →<br>MATERIALS USED<br><i>[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]<br/>[Show Common Fertilizers in Respondent Booklet.]</i> |  |                            | 3<br>What quantity was applied per acre?<br><br><i>[Leave this column blank if actual nutrients were reported.]</i> | 4<br>[Enter material unit code.]<br><br>1 Pounds<br>12 Gallons<br>19 Pounds of actual nutrients | 5<br>When was this applied?<br><br>1 Before seeding (fall)<br>2 Before seeding (spring)<br>3 At seeding<br>4 After seeding | 6<br>How was this applied?<br><br>1 Broadcast, ground without incorporation<br>2 Broadcast, ground with incorporation<br>3 Broadcast, by air<br>4 In seed furrow<br>5 In irrigation water<br>6 Chisel, injected or knifed in<br>7 Banded/sidedressed in or over row<br>8 Foliar or directed spray<br>9 Spot treatments | 7<br>How many acres were treated in this application?<br><br>ACRES |
|------|--|--|----------------------------|---|---|--|--|--|
|      | N<br>Nitrogen  | P <sub>2</sub> O <sub>5</sub><br>Phosphate | K <sub>2</sub> O<br>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 | 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  
2110

5. **Was a--**  
 a. **soil test** performed on this field in 1997 or 1998  
 for the 1998 sorghum crop? . . . . . YES = 1 CODE  
2111

b. **plant tissue test** performed on this field in 1997 or 1998  
 for the 1998 sorghum crop? . . . . . YES = 1 CODE  
2112

6. **Was a Nitrogen soil test performed on this field?** CODE  
2113  
 **YES** - *[Enter code 1 and continue.]*       **NO** - *[Go to item 7.]* . . . . .

a. **Was the amount of Nitrogen applied to this field--** . . . . . CODE  
2114

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

7. **Is lime ever applied to this field?** CODE  
2115  
 **YES** - *[Enter code 1 and continue.]*       **NO** - *[Go to item 8.]*

a. On average, how many years are there between applications  
 of **lime** to this field? . . . . . YEARS  
2116

b. How many tons of **lime** were applied per acre  
 the last time it was applied to this field? . . . . . TONS PER ACRE  
2117

**C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C**

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

**YES** - [Enter code 1 and continue.]       **NO** - [Go to **Section D.**] ..... CODE  
2118

a. How many acres was manure applied to? ..... ACRES  
2119

b. What was the total amount of manure applied to this field? ..... TOTAL TONS      OR      TOTAL GALLONS  
2120      2121

c. Was the manure-- CODE  
2122

|   |  |
|---|--|
| 1 | Dry Broadcast <i>without</i> incorporation?    |
| 2 | Dry Broadcast <i>with</i> incorporation?       |
| 3 | Liquid Broadcast <i>without</i> incorporation? |
| 4 | Liquid Broadcast <i>with</i> incorporation?    |
| 5 | Injected/knifed in?                            |

d. Was the major source of the manure from-- CODE  
2123

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

e. Was the manure-- CODE  
2124

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

---

**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 1998 sorghum crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 sorghum 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  
2128

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 |
|---------|---------------------------|------|

| NOTES | LINE | 2  | 3   | 4  | 5  | 6 OR 7  |   | 8  |
|-------|------|--|---|--|--|---|---|--|
|       |      | What products were applied to this field?<br>[Show product codes from Respondent Booklet.] | Was this product bought in liquid or dry form?<br>[Enter L or D.] | Was this part of a tank mix?<br>[If tank mix, enter line number of first product in tank mix.] | When was this applied?<br>1 BEFORE planting<br>3 AT planting<br>4 AFTER planting | How much was applied per acre per application ? | What was the total amount applied per application in this | [Enter unit code.]<br>1 POUNDS<br>12 GALLONS<br>13 QUARTS<br>14 PINTS<br>15 OUNCES<br>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<br>(Herbicide,<br>Insecticide,<br>Fungicide, etc.) | EPA No. or Tradename<br>and Formulation | Form<br>Purchased<br>(Liquid or<br>Dry) | Where Purchased<br>[Ask only if EPA No.<br>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<br>How was this product applied?<br><small>[Enter code from above.]</small> | 10<br>How many acres in this field were treated with this product?<br><br>ACRES | 11<br>What was the number of times applied?<br><br>NUMBER | 12<br>What was the PRIMARY target pest for this application?<br><small>[Use Target Pest codes from Respondent Booklet.]</small> | 13<br>This year, was the problem of this pest--<br><br>1 worse than normal?<br>3 normal?<br>5 less than normal?<br>7 unknown?<br>9 not applicable? | 14<br>Were these applications made by--<br><br>1 Operator, Partner or Family member?<br>2 Custom applicator?<br>3 Employee / Other? |
|------|---|---|---|---|--|---|
|      | 01  | 0311  | 0312<br>•<br>__   | 0313  | 0314   | 0315  |
| 02   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 03   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 04   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 05   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 06   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 07   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 08   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 09   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 10   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |
| 11   | 0311  | 0312<br>•<br>__   | 0313  | 0314  | 0315   | 0316  |

**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 sorghum crop. By pests, we mean WEEDS, INSECTS and DISEASES.
- Let's begin with questions about scouting this field for pests.

|  |  |
|--|--|
| <p><b>1</b></p> <p><b>Was this sorghum field scouted for--</b></p> | <p><b>②</b></p> <p><i>[If YES, ask--]</i></p> <p><b>Was most of the scouting for [column 1] done by--</b></p> <p>1 Operator, Partner or Family member?<br/>                 2 an Employee?<br/>                 3 Farm supply or Chemical dealer?<br/>                 4 Independent Crop consultant or Commercial scout?</p> <p><b>CODE</b></p> |
| YES=1  |  |
| a. weeds? .....  | 2129 2130  |
| b. insects? .....  | 2131 2132  |
| c. diseases? .....   | 2133   |

- [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

|                                |
|--------------------------------|
| <p><b>CODE</b></p> <p>2134</p> |
|--------------------------------|

**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 2135

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 | 2136 |
| b. field mapping of previous weed problems? . . . . . YES = 1                             | 2137 |
| c. recommendations from a <i>chemical dealer</i> ? . . . . . YES = 1                      | 2138 |
| d. recommendations from an <i>independent crop consultant</i> ? . . . . . YES = 1         | 2139 |

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 2140

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

|   |      |
|---|------|
| a. a routine treatment? . . . . . YES = 1   | 2141 |
| b. type and/or density of weed(s) present? . . . . . YES = 1                      | 2142 |
| c. recommendations from a <i>chemical dealer</i> ? . . . . . YES = 1              | 2143 |
| d. recommendations from an <i>independent crop consultant</i> ? . . . . . YES = 1 | 2144 |

11. [Enumerator Action: *Were INSECTICIDES used (pesticide product codes 1000-1999), Section D, item 1 column 2?*  
 YES - [Continue.]       NO - [Go to item 13.]

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

|  |      |
|--|------|
| a. a preventative schedule? . . . . . YES = 1  | 2145 |
| b. scouting data compared to University or Extension guidelines for infestation thresholds? . . . . . YES = 1                            | 2146 |
| c. standard practices or history of insect problems? . . . . . YES = 1   | 2147 |
| d. local information ( <i>from other farmers, radio, TV, newsletters, etc.</i> ) that the pest was or was not present? . . . . . YES = 1 | 2148 |
| e. your (the operator's) own determination of the infestation level? . . . . . YES = 1   | 2149 |

13. **Was this sorghum field cultivated for weed control during the growing season?** YES = 1 2150

**E PEST MANAGEMENT PRACTICES--SELECTED FIELD E**

14. Were (was)--

- a. planting or harvesting dates adjusted on this field to reduce or control pests? . . . . . YES=1
- b. pesticides alternated from year to year on this field to control pests? (Use pesticides from different families) . . . . . YES=1
- c. a biological soil analysis done on this sorghum field to detect the presence of soil pests, such as insects, diseases or nematodes? . . . . . YES= 1
- d. beneficial insects considered in selecting and using pesticides on this field? . . . . . YES= 1
- e. beneficial insects purchased and released in the sorghum field? . . . . . YES= 1

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 sorghum crop?**

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

- |   |  |
|---|--|
| 1 | Extension Advisor, Publications or Demonstrations<br>(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<br>(DTN, Internet, World Wide Web, etc.)                 |
| 8 | Other  |
| 9 | None   |

[Choose one and enter code.]

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

CODE

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

CODE

OFFICE USE



**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 sorghum 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.

**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  
 Fertilizers & Pesticides applications  
 Harvesting & Hauling

| 2<br>S<br>E<br>Q<br>U<br>E<br>N<br>C<br>E<br>N<br>C<br>E<br>N<br>O. | 3<br>What operation or equipment was used? | 4<br>[Record machine code from Respondent Booklet.]<br><br>CODE | 5<br>Who was the machine operator--<br><br>[Enter code from above.] | [If CUSTOM (column 5 is code 6) skip columns 9-10] |   | 11<br>In what month was this operation done?<br><br>MM YY |
|---|--|---|---|--|---|---|
|   |  |   |   | 9<br>How many acres were covered?<br>1/<br>ACRES   | 10<br>How many acres were covered per hour?<br>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  |

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.

**OFFICE USE**

0347

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

|     |   | CODE |
|-----|---|------|
| 8.  | <b>Was there (will there be) a yield monitor on the equipment used to harvest this sorghum field?</b> ..... | 2177 |
|     | <i>[If YES, ask--]</i>  |      |
| a.  | Was (will there be) a yield map produced from this harvest using information from the yield monitor? .....  | 2178 |
| 9.  | <b>Regardless of when done, has this field been soil grid-sampled and grid-mapped?</b> .....                | 2179 |
| 10. | <b>Was variable rate technology (VRT) used for--</b>  | 2180 |
| a.  | fertilization or liming? .....  | 2181 |
| b.  | seeding? .....  | 2182 |
| c.  | pesticide applications? .....   | 2182 |

**G IRRIGATION---SELECTED FIELD**

**G**

|   |                                   |
|---|-----------------------------------|
|   | <b>ACRES</b>                      |
| 1. <b>How many acres in this field were irrigated for the 1998 sorghum crop?</b><br><i>[If none, go to Conclusion.]</i> .....   | 2183                              |
| 2. <b>Now, I have some questions about irrigation systems and water used on this field for the 1998 sorghum crop.</b>   |                                   |
| a. What type(s) of irrigation system(s) were used to irrigate this field?<br><i>[Use <b>System Type Codes</b>. Enter <b>System Type Code</b> for system covering the most field acres.]</i> ..... | <b>SYSTEM TYPE CODE</b><br>2184   |
| b. What was the total number of inches of water per acre applied to this field during the entire growing season?<br><i>(Include ALL water used from both on-farm and off-farm sources.)</i> ..... | <b>INCHES PER ACRE</b><br>2185    |
| (1) <i>[If operator cannot answer item 2b, ask--; else go to item 2c.]</i><br>What is the total number of hours that water was applied to this field during the growing season? .....             | <b>TOTAL HOURS</b><br>2186        |
| (2) How many gallons per minute were applied? .....   | <b>GALLONS PER MINUTE</b><br>2187 |
| c. What percent of ALL water applied to this field came from surface water sources? .....   | <b>PERCENT</b><br>2188            |
| d. What was the number of times this field was irrigated during the growing season? .....   | <b>NUMBER</b><br>2189             |
| 3. <b>Was any water purchased to irrigate this field?</b><br><i>(Include landlord's share and purchases from all sources.)</i> ..... <b>YES=1</b>   | <b>CODE</b><br>2190               |
| <i>[If YES, ask--]</i>  | <b>PERCENT</b>                    |
| a. What percent of the water used on this field was purchased? .....  | 2191                              |
| 7. <b>Were wells used to supply irrigation water for this field?</b> ..... <b>YES=1</b>   | <b>CODE</b><br>2192               |
| <i>[If YES, ask--]</i>  | <b>TOTAL DOLLARS</b>              |
| e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1998? .....   | 2193                              |

20  
**CONCLUSION**

**LOCATION OF SELECTED FIELD**

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

COUNTY NAME

OFFICE USE--  
COUNTY FIPS  
CODE

c. What county is the selected sorghum field in? .....

|  |      |
|--|------|
|  | 0010 |
|--|------|

2. [ENUMERATOR ACTION: *Mark map to indicate where the selected sorghum 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 |
|--|------|

**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**

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

FERTILIZER  
APPLICATIONS

PESTICIDE  
APPLICATIONS

FIELD  
OPERATIONS

NUMBER

|  |      |
|--|------|
|  | 0020 |
|--|------|

|  |      |
|--|------|
|  | 0021 |
|--|------|

|  |      |
|--|------|
|  | 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 |
|--|------|