



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
SOYBEAN PRODUCTION
PRACTICES REPORT
for 1998**

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

| | | | | | | |
|---------------|-------------------|----------------|-------------------|-------------|--------------|------------|
| VERSION 06 | POID _ _ _ _ _ | TRACT _ _ _ | SUBTRACT _ _ _ | T-TYPE 0 | TABLE 000 | LINE 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 soybeans and need your help to make the information as accurate as possible. Authority for collection of information on the Soybean 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 Comp Code | <input type="text" value="0008"/> | | | |
| PARTNERS' STRATUM 182 | <input type="text" value="0925"/> | <input type="text" value="0926"/> | <input type="text" value="0927"/> | <input type="text" value="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 SOYBEAN FIELD SELECTION

A

1. How many acres of soybeans 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 soybean fields planted for the 1998 crop.

What is the TOTAL number of soybean 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 SOYBEAN FIELD SELECTION

A

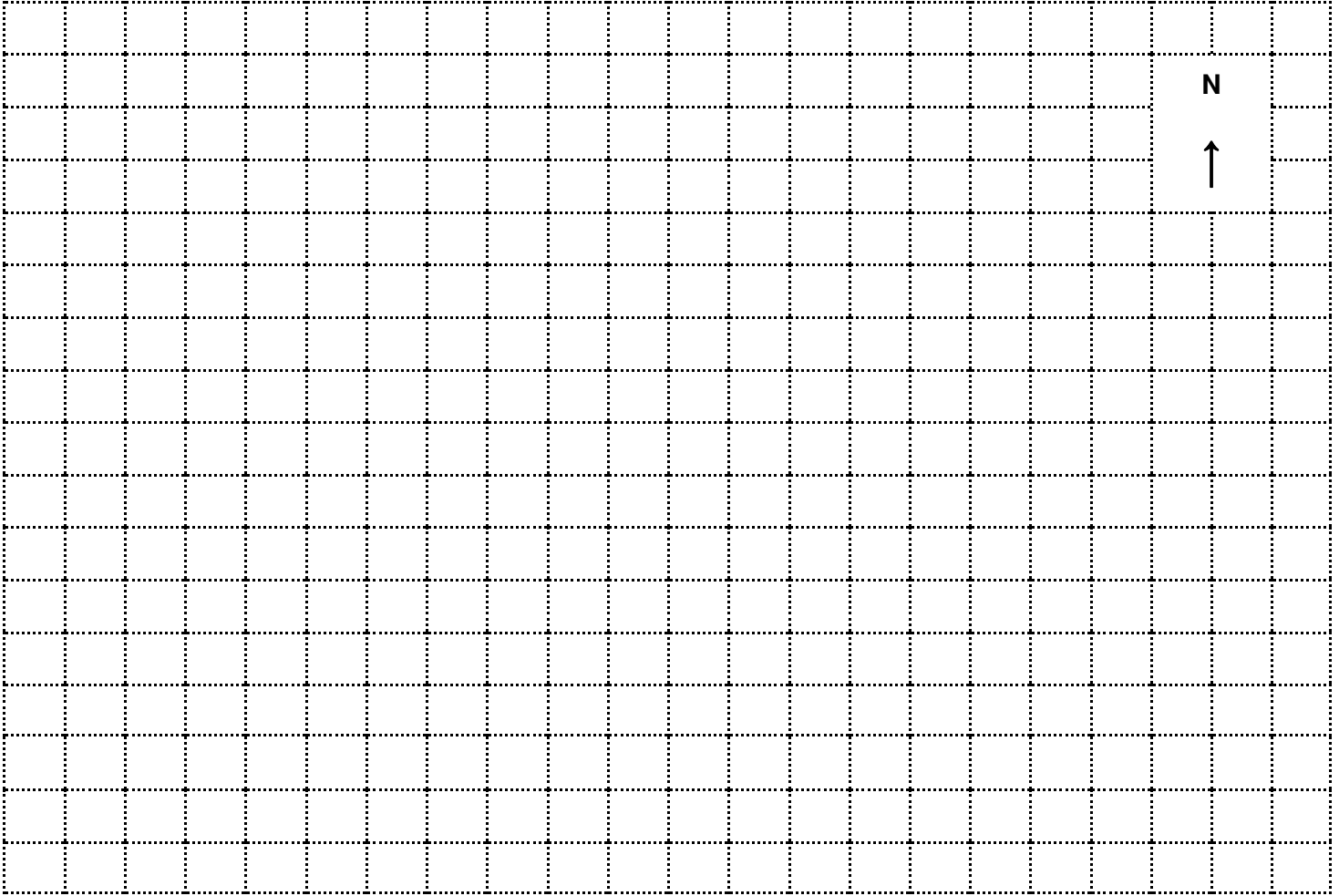
APPLY "RANDOM NUMBER" LABEL HERE

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 soybean field.
[Be sure the operator can identify the selected field.]



B FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of soybeans did this operation plant in the selected field in 1998? ACRES
1151

2. How many acres in this field were--

a. owned by this operation? ACRES
1152

b. rented for CASH? 1153

c. SHARE rented? 1154

d. used RENT-FREE? 1155

5. [If any acres in field RENTED, ask--]
What year did you start renting this field? YEAR
1156

a. Do you EXPECT to be renting this same field for the next 5 years (through the 2003 crop year)? YES = 1 CODE
1157

10. On what date was this field planted? MM DD YY
1159

11. What was the seeding rate per acre the first time this field was seeded? UNIT CODE
1=POUNDS
2=CWT.
4=BUSHEL
25=KERNELS/SEEDS
UNITS PER ACRE
1160 1161

a. Was the soybean seed-- ... 1 Drilled?
2 Planted in conventional rows?
3 Broadcast on this field? CODE
1162

b. [If DRILLED or PLANTED, ask--]
What was the row width in inches? INCHES
1163

13. Was the source of the soybean seed-- 1 Purchased? - [Enter code 1; continue.]
2 Homegrown or traded?
- [Enter code 2; go to item 20.]
3 Both? - [Enter code 3; continue.] CODE
1164

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

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

Which type of soybean seed variety was used--

a. in this field in 1998?

[Use Seed Type Code List.]

CODE
1165

b. in this field in 1997?

[Use Seed Type Code List.]

Leave blank if different commodity planted in 1997.]

1166

SEED TYPE - SOYBEANS

- 1** Genetically modified **herbicide-resistant** seed variety
(For example, RoundUp Ready, Synchrony, Reliance, Classic, Pinnacle, Canopy or Concert resistant varieties, etc.)
- 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

1167

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

CODE

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

1168

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

| 1 | 2 | 3 |
|--|--|---|
| How many acres in the soybean field were (will be)-- | What yield per acre did you get (do you expect to get) for-- | UNIT CODE |
| ACRES | UNITS PER ACRE | 1=POUNDS 2=CWT 3=TONS 4=BUSHEL |
| a. harvested for beans? | 1169 . ____ | 1170 . ____ |
| d. abandoned? | 1177 . ____ | |
| e. other use? | 1178 . ____ | |

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

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

| 1 | 2 |
|--|--|
| What crop was PLANTED on this field in-- | Was this crop irrigated on this field? |
| CROP NAME | CROP CODE |
| a. FALL of 1997? | YES=1 |
| b. SPRING/SUMMER of 1997? .. | 1179 |
| c. FALL of 1996? | 1181 |
| d. SPRING/SUMMER of 1996? .. | 1183 |
| e. FALL of 1995? | 1185 |
| f. SPRING/SUMMER of 1995? .. | 1187 |
| | 1189 |

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

1191

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

| 1 | 2 | 3 |
|---|--|---|
| 27. Did your land-use practices for this field include-- | In what year were the (column 1)'s established in this field? | How much of the cost of building the (column 1)'s was paid directly by you? |
| CODE | YEAR | PERCENT |
| a. terraces? YES = 1 | 1192 | 1193 |
| b. temporary or permanent levees? . YES = 1 | 1195 | 1196 |
| c. grassed waterways? YES = 1 | 1198 | 1199 |
| d. contour farming? YES = 1 | 1201 | 1200 |
| e. strip cropping? YES = 1 | 1202 | |
| f. underground outlets such as tile drainage? YES = 1 | 1203 | |
| g. other drainage channels or diversions? (Include water furrows) YES = 1 | 1204 | |

28. Has the Natural Resource Conservation Service
or NRCS classified any part of this field as "Highly Erodible"? YES = 1
- CODE
1205
29. Have you been notified by NRCS that this field contains a wetland? YES = 1
- 1206
30. Have you received assistance from NRCS in 1998 for planning
or installation of conservation practices or systems on this field? YES = 1
- 1207
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
- 1208

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

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

| | |
|---------------------|---------------------------|
| CODE 1209 | EDIT TABLE 0201 |
|---------------------|---------------------------|

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

| | | |
|--------------------|---------------------|-------------------|
| T-TYPE 0 | TABLE 000 | LINE 00 |
|--------------------|---------------------|-------------------|

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

| T-TYPE | TABLE | LINE |
|--------|-------|------|
| 0 | 000 | 00 |

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

CODE

| |
|------|
| 1211 |
|------|

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

CODE

| |
|------|
| 1212 |
|------|

7. Is lime ever applied to this field?

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

CODE

| |
|------|
| 1215 |
|------|

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

YEARS

| |
|------|
| 1216 |
|------|

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

TONS PER ACRE

| | |
|------|---------|
| 1217 | . __ __ |
|------|---------|

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

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

YES - [Enter code 1 and continue.] NO - [Go to Section D.] CODE
1218

a. How many acres was manure applied to? ACRES
1219

b. What was the total amount of manure applied to this field? TOTAL TONS OR TOTAL GALLONS
1220 1221

c. Was the manure-- CODE
1222

| | |
|---|--|
| 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
1223

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

e. Was the manure-- CODE
1224

| | |
|---|---|
| 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 soybean crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 soybean crop?

[Probe for applications made in the fall of 1997 (and those made earlier if this field was fallow).]

YES=1

CODE

1228

OFFICE USE
EDIT TABLE

0301

[If none, go to Section E.]

| 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

3

TABLE

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? <small>[Show product codes from Respondent Booklet.]</small> | Was this product bought in liquid or dry form? <small>[Enter L or D.]</small> | Was this part of a tank mix? <small>[If tank mix, enter line number of first product in tank mix.]</small> | When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting | How much was applied per acre per application ? | What was the total amount applied per application in this | <small>[Enter unit code.]</small> 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 <small>(Herbicide, Insecticide, Fungicide, etc.)</small> | EPA No. or Tradename and Formulation | Form Purchased <small>(Liquid or Dry)</small> | Where Purchased <small>[Ask only if EPA No. cannot be reported.]</small> |
|-------|--|--------------------------------------|--|---|
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ |

D PESTICIDE APPLICATIONS --- SELECTED FIELD**D****APPLICATION CODES for column 9**

| | |
|---|--------------------------------|
| 1 Broadcast, ground without incorporation | 6 Chisel/Injected or Knifed in |
| 2 Broadcast, ground with incorporation | 7 Banded in or Over Row |
| 3 Broadcast, by air (<i>Aerial application</i>) | 8 Foliar or Directed spray |
| 4 In Seed Furrow | 9 Spot treatments |
| 5 In Irrigation water | |



| LINE | 9 How was this product applied? <small>[Enter code from above.]</small> | 10 How many acres in this field were treated with this product? ACRES | 11 What was the number of times applied? NUMBER | 12 What was the PRIMARY target pest for this application? <small>[Use Target Pest codes from Respondent Booklet.]</small> | 13 This year, was the problem of this pest-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable? | 14 Were these applications made by-- 1 Operator, Partner or Family member? 2 Custom applicator? 3 Employee / Other? |
|------|---|---|---|---|--|---|
| | 01 | 0311 | 0312 •__ | 0313 | 0314 | 0315 |
| 02 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 03 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 04 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 05 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 06 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 07 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 08 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 09 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 10 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |
| 11 | 0311 | 0312 •__ | 0313 | 0314 | 0315 | 0316 |

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

| | | |
|---|--------------|--|
| 1 | | ② [If YES, ask--] Was most of the scouting for [column 1] done by-- |
| Was this soybean field scouted for-- | YES=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? | 1229 | 1230 |
| b. insects? | 1231 | 1232 |
| c. diseases? | 1233 | |

- [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 |
| 1234 |

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 1235

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 1236
 b. field mapping of previous weed problems? YES = 1 1237
 c. recommendations from a *chemical dealer*? YES = 1 1238
 d. recommendations from an *independent crop consultant*? YES = 1 1239

9. Did you apply herbicides to this field AFTER weeds emerged?
 YES - [Enter code 1 and continue.] NO - [Go to item 11.] YES = 1 1240

10. Did you decide to apply herbicides AFTER weeds emerged based on--
 a. a routine treatment? YES = 1 1241
 b. type and/or density of weed(s) present? YES = 1 1242
 c. recommendations from a *chemical dealer*? YES = 1 1243
 d. recommendations from an *independent crop consultant*? YES = 1 1244

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 soybean field based on--
 a. a preventative schedule? YES = 1 1245
 b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1 1246
 c. standard practices or history of insect problems? YES = 1 1247
 d. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? YES = 1 1248
 e. your (the operator's) own determination of the infestation level? YES = 1 1249

13. Was this soybean field cultivated for weed control during the growing season? YES = 1 1250

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 soybean 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 soybean 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 soybean 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.]

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 soybean 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 S E Q U E N C E N C E N O. | 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 |

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. | Was there (will there be) a yield monitor on the equipment used to harvest this soybean field? | 1277 |
| | <i>[If YES, ask--]</i> | |
| a. | Was (will there be) a yield map produced from this harvest using information from the yield monitor? | 1278 |
| 9. | Regardless of when done, has this field been soil grid-sampled and grid-mapped? | 1279 |
| 10. | Was variable rate technology (VRT) used for-- | 1280 |
| a. | fertilization or liming? | 1281 |
| b. | seeding? | 1282 |
| c. | pesticide applications? | 1282 |

G IRRIGATION---SELECTED FIELD

G

| | | |
|---|--|------|
| <p>1. How many acres in this field were irrigated for the 1998 soybean crop? <i>[If none, go to Conclusion.]</i></p> | <p>ACRES</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1283</td> </tr> </table> | 1283 |
| 1283 | | |
| <p>2. Now, I have some questions about irrigation systems and water used on this field for the 1998 soybean crop.</p> <p>a. What type(s) of irrigation system(s) were used to irrigate this field? <i>[Use System Type Codes. Enter System Type Code for system covering the most field acres.]</i></p> | <p>SYSTEM TYPE CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1284</td> </tr> </table> | 1284 |
| 1284 | | |
| <p>b. What was the total number of inches of water per acre applied to this field during the entire growing season? <i>(Include ALL water used from both on-farm and off-farm sources.)</i></p> | <p>INCHES PER ACRE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1285</td> </tr> </table> | 1285 |
| 1285 | | |
| <p>(1) <i>[If operator cannot answer item 2b, ask--; else go to item 2c.]</i> What is the total number of hours that water was applied to this field during the growing season?</p> | <p>TOTAL HOURS</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1286</td> </tr> </table> | 1286 |
| 1286 | | |
| <p>(2) How many gallons per minute were applied?</p> | <p>GALLONS PER MINUTE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1287</td> </tr> </table> | 1287 |
| 1287 | | |
| <p>c. What percent of ALL water applied to this field came from surface water sources?</p> | <p>PERCENT</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1288</td> </tr> </table> | 1288 |
| 1288 | | |
| <p>d. What was the number of times this field was irrigated during the growing season?</p> | <p>NUMBER</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1289</td> </tr> </table> | 1289 |
| 1289 | | |
| <p>3. Was any water purchased to irrigate this field? <i>(Include landlord's share and purchases from all sources.)</i> YES=1</p> <p><i>[If YES, ask--]</i></p> | <p>CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1290</td> </tr> </table> | 1290 |
| 1290 | | |
| <p>a. What percent of the water used on this field was purchased?</p> | <p>PERCENT</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1291</td> </tr> </table> | 1291 |
| 1291 | | |
| <p>7. Were wells used to supply irrigation water for this field? YES=1</p> <p><i>[If YES, ask--]</i></p> | <p>CODE</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1292</td> </tr> </table> | 1292 |
| 1292 | | |
| <p>e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1998?</p> | <p>TOTAL DOLLARS</p> <table border="1" style="width: 100%; height: 20px;"> <tr> <td style="text-align: center;">1293</td> </tr> </table> | 1293 |
| 1293 | | |

20
CONCLUSION

LOCATION OF SELECTED FIELD

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

COUNTY NAME

OFFICE USE--
COUNTY FIPS
CODE

c. What county is the selected soybean field in?

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

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