

# AGRICULTURAL RESOURCE MANAGEMENT SURVEY ORGANIC SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

**for 2006**

U.S. Department of Agriculture,  
Rm 5030, South Building  
1400 Independence Ave., S.W.  
Washington, DC 20250-2000  
Phone: 1-800-727-9540  
Fax: 202-690-2090  
Email: nass@nass.usda.gov

VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
4	_____	01	_____	0	000	00



CONTACT RECORD		
DATE	TIME	NOTES

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

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

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

**H H M M**

**BEGINNING TIME**   
 [MILITARY] \_\_\_\_\_

**SCREENING BOX**

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

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

<b>POID</b> _____	<b>POID</b> _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
<b>POID</b> _____	<b>POID</b> _____
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

# A ORGANIC SOYBEAN FIELD SELECTION

A

TOTAL PLANTED ACRES

1. How many acres of Certified Organic Soybeans did this operation plant for the 2006 crop year? .....

0050

2. I will follow a simple procedure to make a random selection from the certified organic soybean fields planted for the 2006 crop.

TOTAL NUMBER OF FIELDS PLANTED

What is the TOTAL number of certified organic soybean fields that were planted on this operation? .....

0020

[If only 1 field, enter 1 and go to item 4.]

3. Please list these organic fields according to identifying name/number or describe each field, then I will tell you which field has been selected.

- ▶ [If there are more than 18 fields make sure item 2 is **TOTAL certified** organic soybean fields planted, and list only the 18 fields closest to the operator's permanent residence.
- ▶ If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

FIELD NAME, NUMBER OR DESCRIPTION

1 \_\_\_\_\_

2 \_\_\_\_\_

3 \_\_\_\_\_

4 \_\_\_\_\_

5 \_\_\_\_\_

6 \_\_\_\_\_

7 \_\_\_\_\_

8 \_\_\_\_\_

9 \_\_\_\_\_

FIELD NAME, NUMBER OR DESCRIPTION

10 \_\_\_\_\_

11 \_\_\_\_\_

12 \_\_\_\_\_

13 \_\_\_\_\_

14 \_\_\_\_\_

15 \_\_\_\_\_

16 \_\_\_\_\_

17 \_\_\_\_\_

18 \_\_\_\_\_

APPLY "RANDOM NUMBER" LABEL HERE

4. [ENUMERATOR ACTION:]

Circle the pair of numbers on the above label associated with the last numbered field in item 3.  
Select the field according to the number you circled on the label, and record the selected number.  
If only 1 field, enter

1]. .....

SELECTED FIELD  
NUMBER

0021

5. The field selected is \_\_\_\_\_ (field name/number/description.)

**During this interview, the soybean questions will be about this selected certified organic soybean field.**

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

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of certified organic soybeans did this operation plant in this field for the 2006 crop? .....

ACRES
1301

2. Are the acres in this field --

- 1 owned by this operation?
2 rented for CASH with the payment being a fixed cash amount?
3 rented for CASH with the payment being a flexible cash amount?
4 rented for a SHARE of the crop?
5 rented for some combination of CASH and SHARE of the crop?
6 used RENT FREE?

CODE
1302

3. [If field is CASH RENTED (item 2 = 2, 3 or 5), ask--, else go to item 4.] What was the cash rent paid per acre for this 2006 organic soybean field? .....

DOLLARS & CENTS PER ACRE
1303

[If item 2 = 2, ask items 3a, 3b, and 3c---else go to item 4.]

a. How many total crop acres were cash rented from the landlord/owner of this organic soybean field (i.e., the number of acres in the FSA farm that includes this organic soybean field)? .....

ACRES
1309

b. What was the total amount of the Direct Payment under the 2006 Farm Commodity Program you received (or will receive) for all the crop acres you cash rented from the landlord/owner of this organic soybean field (i.e., total Direct Payment for the FSA farm that includes this organic soybean field)? .....

TOTAL DOLLARS
1310

c. When you signed the cash lease for this organic soybean field, did you expect a Counter-cyclical Payment would be declared in 2006? .....

CODE
1312
YES = 1

4. [If field is SHARE RENTED (item 2 = 4 or 5), ask--] What was the landlord's share of the crop from this field? .....

PERCENT
1304

5. [If field is RENTED (item 2 = 2, 3, 4, or 5), ask--] What was the total cost for all inputs provided by any landlord and contractor for the 2006 crop? .....

DOLLARS & CENTS PER ACRE OR TOTAL DOLLARS
1305 PER ACRE 1306 TOTAL DOLLARS

(Include the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation. Exclude real estate tax expenses, drying, and lime costs paid by the landowner.)

6. What year did you (the operator listed on the label) start operating this field? .....

YEAR
1307

a. What year did you start to operate the field as an organic producer? .....

1322

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

MM DD YY
1308

**UNIT CODES  
for Seeding Rate**  
 1 = Pounds/Acre  
 2 = CWT/Acre  
 4 = Bushels/Acre  
 25 = Seeds/Acre  
 38 = Seeds/Foot

9. **What was the seeding rate per acre the first time this field was planted?**.....

UNITS	
1313	1314

a. Was the soybean seed----.....

1 Drilled? 2 Planted in Conventional Rows? 3 Broadcast on this field?	CODE
.....	1315

10. [If Drilled or Planted (item 9a = 1 or 2), ask--]

**What was the average soybean row width?**.....

INCHES
1323

11. **Was the soybean seed planted in this field--**.....

1 Purchased? 2 Homegrown or traded? 3 Both?	CODE
.....	1316

[If item 11 = 2 or 3, ask--]

a. What was the cost per bushel for cleaning and treating this seed?.....

DOLLARS & CENTS PER BUSHEL
1321

[If item 11 = 3, ask--]

b. How much of the soybean seed planted in this field was grown (or received in trade) by this operation?.....

PERCENT
1317

12. **How many acres in this field had to be replanted to soybeans?**

(Number of acres times the number of times replanted.).....

ACRES
1318

[If any seed purchased (item 11 = 1 or 3) ask,--- else go to item 14.]

**UNIT CODES**  
 1 = POUNDS  
 2 = CWT  
 3 = TONS  
 4 = BUSHEL  
 22 = ACRE  
 23 = 50 LB BAGS

13. **What was the total cost per unit** (including both your and the landlord's and contractor's share) **of purchased seed for this field?** (Include cost of seed treatment and inoculants).....

DOLLARS & CENTS PER UNIT	UNIT CODES
1319	1320

SEED TYPE - SOYBEANS
3 - Organic soybean variety ( <i>Clear Hilum food-grade</i> )
4 - Organic soybean variety ( <i>Vinton food-grade</i> )
5 - Organic soybean variety ( <i>other food-grade varieties</i> )
6 - Organic soybean variety ( <i>non-food grade varieties</i> )
7 - None of the above

**14. Which type of soybean seed was used on the majority of this field---**

[Show Seed Type Code List from Respondent Booklet and choose one code.]

- a. in 2006? .....
- ...
- b. in 2005? [Leave blank if soybeans were not on this field in 2005.] .....

CODE
1346
1347

**16. Did you choose the organic production system used on this field primarily to---**

- |  |
|--|
| 1 - protect health of family and community?        |
| 2 - adopt more environmentally friendly practices? |
| 3 - increase farm income?                          |
| 4 - for some other reason(s)? [Specify _____]      |

CODE
1348

**18. Were the soybeans from this field sold (or will be sold) through a market specifically for certified organic soybeans? .....**

- ..
- a. [If item 18 = YES, ask---]

What was the price premium (or the expected premium if not yet sold) received for these certified organic soybeans? .....

..

CODE
1349

YES = 1

DOLLARS & CENTS PER BUSHEL
1350

**25. Has harvest of this field been completed? .....**

CODE
1328

YES = 1

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

How many acres in this soybean field were (will be)--	ACRES	1	2
		What yield per acre did you get (do you expect to get) for—	UNIT CODES 1= POUNDS 2= CWT 3= TONS 4= BUSHELS
		UNITS PER ACRE	UNIT CODES
a. harvested for beans? . . . . .	1329	1330	1331
b. harvested for hay, or other forage chop? . . . . .	1332	1333	TONS
c. harvested for seed? . . . . .	1335	1336	1337
d. . . . .	1338		
e. used for some other purpose? . . . . .	1339		

**CROP CODE LIST for item 27**  
PREVIOUSLY PLANTED CROP was---

1 Alfalfa hay	196 Tobacco, flue cured	16 Peanuts	26 Soybeans
11 Hay, all other	193 Tobacco, burley	17 Dry Peas	28 Sugarbeets
190 Barley	281 Cotton, Upland	20 Potatoes	30 Sunflowers
3 Dry Beans	282 Cotton, Pima	21 Rice	142 Vegetables
85 Canola	302 CRP	22 Rye	163 Wheat, durum
310 Clover	311 Grasses other than clover	98 Safflower	164 Wheat, other spring
6 Corn for grain	94 Mustard Seed	25 Sorghum for grain	165 Wheat, winter
5 Corn for silage	15 Oats	24 Sorghum for silage	318 <b>No crop planted</b> during this period
	31 Sweet Potatoes		

## 27. Next, I need to know what crops were previously PLANTED on the majority of this field, including cover crops.

What crop was PLANTED on this field in---		
	CROP NAME	CROP CODE
a. FALL of		1352
b. SPRING/SUMMER of 2005? . . . . .		1353
c. FALL of		1354
d. SPRING/SUMMER of 2004? . . . . .		1355
e. FALL of		1356
f. SPRING/SUMMER of 2003? . . . . .		1357

28. In 2006, did your land-use practices for this field include---		CODE
a. terraces? . . . . .	YES = 1	1358
b. temporary or permanent levees? . . . . .	YES = 1	1359
c. grassed waterways? . . . . .	YES = 1	1360
d. filter strips or riparian buffers on or adjoining the field? . . . . .	YES = 1	1361
e. contour farming? . . . . .	YES = 1	1362
f. strip cropping? . . . . .	YES = 1	1363
g. underground outlets such as tile drainage? . . . . .	YES = 1	1364
h. other drainage channels or diversions? . . . . .	YES = 1	1365

		CODE
29. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"? . . . . .	YES = 1	1366
30. Have you been notified by NRCS that this field contains a wetland? . . . . .	YES = 1	1367
31. In 2006, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field? (Include grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Include assistance from any source whether paid for or free.) . . . . .	YES = 1	1368
32. Is this field included in an existing conservation program contract for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments? [Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Also, be sure to consider payments that are part of this contract but were made before 2006 or payments that are anticipated for future years.] . . . . .	YES = 1	1369

[If item 32 is YES, ask---, else go to item 32b.]

		CODE
a. Have (or will) you receive cost sharing or incentive payments for---		
(i) Environmental Quality Incentives Program (EQIP) . . . . .	YES = 1	1370
(ii) Conservation Security Program (CSP) . . . . .	YES = 1	1371
(iii) Conservation Reserve Program (CRP) . . . . .	YES = 1	1395
(iv) Other programs? (Specify: _____) . . . . .	YES = 1	1396
b. Was this field included in an application that was rejected for an existing conservation program and if so, was it rejected from---		
(i) Environmental Quality Incentives Program (EQIP) . . . . .	YES = 1	1397
(ii) Conservation Security Program (CSP) . . . . .	YES = 1	1398
(iii) Conservation Reserve Program (CRP) . . . . .	YES = 1	1399
(iv) Other programs? (Specify: _____) . . . . .	YES = 1	1400



33. During 2006, did any written plan of the following types cover this field and if so, in what year was the plan implemented? <i>(A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)</i>	CODE	YEAR IMPLEMENTED
a. Conservation plan specifying practices to reduce soil erosion? . . . . . YES = 1	1372	1373 _____
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? . . . . . YES = 1	1374	1375 _____
c. Nutrient management plan specifying practices for land application of manure only? . . . . . YES = 1	1376	1377 _____
d. Pest management plan specifying pesticide use and/or other practices controlling weeds, insects, or plant disease? . . . . . YES = 1	1378	1379 _____
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? . . . . . YES = 1	1380	1381 _____

[If items 33a, b, c, d, or e = YES, ask---]

34. During 2006, did you pay any technical service provider or consultant to develop or write any of these plans for which you or the landowner were reimbursed by the Natural Resource Conservation Service? . . . . .

CODE  
1382

YES = 1

a. [If YES, ask---]

What was the reimbursement amount for developing these plans for this field? *(Include landlord's/contractor's share. Exclude cost of construction or materials.)* . . . . .

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	1383		1384

35. Were the soybeans in this field covered by Federal Crop Insurance in 2006?

YES – [Enter code 1 and continue.]       NO – [Go to item 36.] . . . . .

CODE  
1385

a. Which coverage did you obtain? . . . . .

1	Basic catastrophic insurance ( <i>Federal CAT</i> )
2	Buy-up above basic federal CAT level
3	Revenue insurance
4	Organic Plan Insurance
5	Other Federal Crop insurance

CODE  
1386

b. In what year did you (*the operator listed on the label*) first enroll this field in the Federal crop insurance program? . . . . .

YEAR  
1387  
\_\_\_\_\_

c. What is the 2006 Approved APH (*Actual production history*) yield for this field? . . . . .

BUSHELS PER ACRE  
1388

d. What was the premium paid for Federal crop insurance for this field in 2006? . . . . .

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	1390		1391

e. Did you (*or do you expect to*) collect an indemnity payment on this field? . . . . .

CODE  
1392

YES = 1

36. **Were the soybeans in this field covered by private crop insurance in 2006?**

(Hail, wind, freeze, etc.) . . . . .

. .

a. Did you (or do you expect to) collect an indemnity payment on this field for private crop insurance? . . . . .

YES = 1	1393
YES = 1	1394

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

**C**

1. Were commercial FERTILIZERS applied to this field for the 2006 soybean crop? .....

YES = 1

CODE	EDIT TABLE
0202	0201

2. [If COMMERCIAL fertilizer applied, continue, else go to item 7.]

3. How many commercial fertilizer applications were made to this field for the 2006 crop? (Include applications made by airplanes and custom applicators) .....

NUMBER
0203

4. Now I need to record information for each application

CHECKLIST	
√ INCLUDE	√ EXCLUDE
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients
<input type="checkbox"/> Fertilizers applied in the fall of 2005 and those applied earlier if this field was fallow in 2005.	<input type="checkbox"/> Unprocessed manure
<input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Fertilizer applied to previous crops in this field
	<input type="checkbox"/> Lime and Gypsum/landplaster

T-TYPE	TABLE
2	001
Line 99	Office Use Lines in Table
	0213

APPLICATION CODES for COLUMN 6	
1 Broadcast, ground without incorporation	5 In irrigation water
2 Broadcast, ground with incorporation	6 Chisel, injected or knifed in
3 Broadcast, by aircraft	7 Banded/Sidedressed in or over row
4 In seed furrow	8 Foliar or directed spray

LINE	2 MATERIALS USED				3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall before seeding 2 In the spring before seeding 3 At seeding 4 After seeding	6 How was this applied? [Refer to code list above.]	7 How many acres were treated in this application?  ACRES
	N Nitrogen	P <sub>2</sub> O <sub>5</sub> Phosphate	K <sub>2</sub> O Potash	S Sulfur					
	[Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]								
01	0205	0206	0207	0214	0208	0209	0210	0211	0212
02	0205	0206	0207	0214	0208	0209	0210	0211	0212
03	0205	0206	0207	0214	0208	0209	0210	0211	0212
04	0205	0206	0207	0214	0208	0209	0210	0211	0212
05	0205	0206	0207	0214	0208	0209	0210	0211	0212
06	0205	0206	0207	0214	0208	0209	0210	0211	0212
07	0205	0206	0207	0214	0208	0209	0210	0211	0212
08	0205	0206	0207	0214	0208	0209	0210	0211	0212

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

5. Were any fertilizers applied by custom applicators?

- YES - [Continue.]                       NO - [Go to item 6.]

a. Are you able to report the cost of fertilizer materials and custom application separately?

- YES - [Continue.]                       NO - [Go to item 6.]

OFFICE USE

0215
------

b. Excluding the cost of the fertilizer materials, how much was spent for custom application of fertilizers on this field?

*(Include landlord and contractor costs. Exclude custom application of lime, gypsum, purchased manure & purchased compost.)*  
*[If material and application costs can't be separated, exclude them here and record the total in item 6.]* .....

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0219		0220

6. What was the TOTAL COST of all fertilizer products applied to this field? .....

*(Include landlord and contractor costs. Include costs for sulfur and micronutrients. [If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated. Include materials applied to this field if it was fallow in 2005.] Exclude lime, gypsum, purchased manure & purchased compost.)*

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0221		0222

7. Was gypsum applied to this field for the 2006 soybean crop? .....

CODE
0218

YES = 1

8. What was your yield goal at planting for this field? .....

BUSHELS PER ACRE
0223

9. Was a soil or plant tissue test performed on this soybean field in 2005 or 2006 for the 2006 crop?

- YES [Continue.]                       NO [Go to item 14.]

10. Was a soil test for phosphorus performed on this soybean field in 2005 or 2006 for the 2006 crop? .....

CODE
0225

YES = 1

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

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

POUNDS PER ACRE
0226

11. Was a soil test for nitrogen performed on this soybean field in 2005 or 2006 for the 2006 crop? .....

CODE
0227

YES = 1

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

How many pounds of nitrogen (per acre) were recommended (by the nitrogen

test)? .....

POUNDS PER ACRE
0228

12. Was a plant tissue test for nutrient deficiency performed on this field in 2005 or 2006 for the 2006 soybean crop? .....

CODE
0229

YES = 1

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
13. How much was spent for these soil and plant tissue tests on this field? [Include landlord and contractor costs.]	0230		0231

a. If tests were done at no cost explain---

- |   |  |
|---|--|
| 1 | Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service. |
| 2 | Soil/plant tissue test costs were included in the total fertilizer costs reported in item 6.     |
| 3 | Some other reason.   |

CODE

0232

14. [Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 15 and 16. If NO nitrogen applied, go to item 17.]

15. Was the amount of nitrogen you decided to apply to this field based on--  
[Enter code "1" for all that apply.]

	CODE
a. Results of a soil or plant tissue test? ..	0233
b. Crop consultant recommendation? ..	0234
c. Fertilizer dealer recommendation? ..	0235
d. Extension Service recommendation? ..	0236
e. Cost of nitrogen and/or expected commodity price? ..	0237
f. Contractor recommendation? ..	0238
g. Routine practice (operator's own determination based on past experience, yield goal, etc.)? ..	0239

16. Did you use any product to slow the breakdown of nitrogen on this field?  
(For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain).

	CODE
YES = 1	0241

17. Is lime ever applied to this field? ..

	CODE
YES = 1	0242

a. [If no lime applied, go to item 18---else continue.]

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

YEARS

0243

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

TONS PER ACRE

0244

c. Was lime applied to this field in 2005 or 2006 for the 2006 crop? ..

	CODE
YES = 1	0240

d. [If rented, (item B2 =2, 3, 4, or 5) ask---]

Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)? ..

PERCENT

0245

18. Was unprocessed manure or other organic material (excluding compost) applied to this field for the 2006 soybean crop? (Exclude commercially prepared manure.)

YES - [Enter code 1 and continue.]  NO - [Go to item 20].

**CODE**  
0246

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

**ACRES**  
0247

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

1 TONS  
2 GALLONS  
3 BUSHELS

**CODE** 0248 **AND** **UNITS PER ACRE** 0249 **OR** **TOTAL UNITS** 0250

c. What is the distance between the manure storage/production location and this manured field? .....

**MILES**  
0251

d. What was the capacity of the manure spreader used to apply manure to this field? .....

1 TONS  
2 GALLONS  
3 BUSHELS

**CODE** 0252 **AND** **TOTAL UNITS** 0253

e. What was the percent of manure applied---

- (i) in the fall before planting? .....
- ..
- (ii) in the spring before planting? .....
- ..
- (iii) after planting? .....
- ..

**PERCENT**  
0254  
+  
0255  
+  
0256  
+

f. Was the manure---

1 Lagoon liquid?  
2 Slurry liquid?  
3 Semi - dry or dry?

**100%**  
**CODE**  
0257

g. Was the manure---

1 Broadcast or sprayed without incorporation?  
2 Broadcast or sprayed with incorporation?  
3 Injected/knifed in?  
4 Sprayed using irrigation systems?

**CODE**  
0258

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

1 Beef cattle?  
2 Dairy cattle?  
3 Hogs?  
4 Sheep?  
5 Poultry?  
6 Equine?  
7 Biosolids (municipal sludge, food waste, etc.)?  
8 Other (Specify) \_\_\_\_\_?

**CODE**  
0259

i. Was the manure---

1 Produced on this operation?  
2 Purchased (including any payment for transportation or application)?  
3 Obtained at no cost off this operation?  
4 Obtained with compensation?

**CODE**  
0260

j. Was any manure applied to this field tested for nutrient content prior to application? ..... **CODE**  
 .. 0261  
**YES = 1**

k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? ..... **CODE**  
 .. 0262  
**YES = 1**

[If YES, ask--]

(i) By what percent did you reduce the commercial nitrogen fertilizer application rate on this field? ..... **PERCENT**  
 .... 0263

19. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? ..... **CODE**  
0264  
**YES = 1**

a. [If item 19 is YES, ask--]  
 What basis was used to determine these manure application rate restrictions--

(i) Nitrogen requirement of the crop? ..... **CODE**  
 .. 0265  
**YES = 1**

(ii) Phosphorus requirement of the crop? ..... **CODE**  
 .. 0266  
**YES = 1**

20. Was compost applied to this field for the 2006 organic soybean crop? **CODE**  
 YES - [Enter code 1 and continue.]  NO - [Go to Section D.] ..... 0267

a. How many acres in this field was the compost applied to? ..... **ACRES**  
0268

	CODE	UNITS PER ACRE	TOTAL UNITS
b. What was the amount of compost applied to this field? .....	0269	0270	0271
1 Tons			
2 Cubic Yards			
AND		OR	

	1 Produced on this operation? 2 Purchased (including any payment for transportation or application)? 3 Obtained at no cost off this operation? 4 Obtained with compensation?	<b>CODE</b>
c. Was the compost-- .....	.....	0272

**NOTES**



**D PESTICIDE APPLICATIONS---SELECTED FIELD D**

Now I have some questions about all the pesticides used on this field for the 2006 soybean crop including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other chemicals used on this soybean field for the 2006 crop? .....

YES = 1

CODE	EDIT TABLE
0302	0301

[Probe for applications made in the fall of 2005 (and those made earlier if this field was fallow).]  
[If no pesticides applied, go to Section E.]

Include defoliant, fungicides, herbicides, insecticides, and pesticides Include biological and botanical pesticides.	Exclude fertilizers reported earlier and seed treatments.
---	---

T - TYPE	TABLE
3	001
LINE 99	OFFICE USE LINE IN TABLE 0319

CHEMICAL PRODUCT NAME	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 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 field?	<small>[Enter unit code.]</small> 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Oz. 28 Dry Oz. 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
	12	0305		0306	0307	0308		0309	0310
	13	0305		0306	0307	0308		0309	0310
	14	0305		0306	0307	0308		0309	0310

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

LINE	Pesticide Type <small>(Herbicide, Insecticide Fungicide, etc.)</small>	EPA No. or Trade name And Formulation	Form Purchased <small>(Liquid or Dry)</small>	Where Purchased <small>[ASK only if EPA No. cannot be reported.]</small>

APPLICATIONS 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 aircraft	8 Foliar or directed spray
4 In Seed furrow	9 Spot treatments
5 In Irrigation water	

[ENUMERATOR NOTE:  
Use these columns only if  
TOTAL COST  
(item 4 on next page)  
cannot be provided.]

LINE	9 How was this product applied? <i>[Enter code from above.]</i>	10 How many acres in this field were treated with this product? <b>ACRES</b>	11 How many times was it applied? <b>NUMBER</b>	12 Were these applications made by— 1 Operator, Partner or family member? 2 Custom applicator? 3 Employee/Other?	OPTIONAL ITEM 4 What was the cost per unit of the product?		
					DOLLARS and CENTS PER UNIT	UNIT CODE	
01	0311	0312	0313	0316	0317	0318	15 Liquid Ounces
02	0311	0312	0313	0316	0317	0318	28 Dry Ounces
03	0311	0312	0313	0316	0317	0318	30 Grams
04	0311	0312	0313	0316	0317	0318	
05	0311	0312	0313	0316	0317	0318	
06	0311	0312	0313	0316	0317	0318	
07	0311	0312	0313	0316	0317	0318	
08	0311	0312	0313	0316	0317	0318	
09	0311	0312	0313	0316	0317	0318	
10	0311	0312	0313	0316	0317	0318	
11	0311	0312	0313	0316	0317	0318	
12	0311	0312	0313	0316	0317	0318	
13	0311	0312	0313	0316	0317	0318	
14	0311	0312	0313	0316	0317	0318	

T-TYPE	TABLE	LINE
0	000	00

3. Were any chemicals or pesticides applied by custom applicators?

YES – [Continue.]                       NO - [Go to item 4.]

OFFICE USE

a. Are you able to report the cost of chemical product and custom application separately?

0324
------

YES – [Continue.]                       NO - [Go to item 4.]

b. Excluding the cost of the chemical product, how much was spent for custom application of chemicals and pesticides on this field?  
 (Include operator and landlord cost.).....

DOLLAR & CENTS  
PER ACRE

OR TOTAL DOLLARS

0331	. ____
------	--------

0332
------

DOLLAR & CENTS  
PER ACRE

OR TOTAL DOLLARS

4. What was the TOTAL COST of all chemical products applied to this field? .....

0334	. ____
------	--------

0335
------

**Include** operator and landlord cost, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2005 fallow period. **Exclude** seed treatments

**NOTE 1:** If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Pesticide Table.

**NOTE 2:** For custom applications: If respondent cannot report cost of chemical product separately from application costs, report both in item 4.

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

Now I have some questions about your pest management decisions and practices used on this field for the 2006 soybean crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

1. [Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]

- YES - [Continue.]  NO - [Go to item 10.]

2. Was weather data used to assist in determining either the need for or timing of pesticide applications? .....

CODE
0800
YES = 1

3. Were any biological pesticides such as Bt (*Bacillus thuringiensis*), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in this field? .....

0801
YES = 1

4. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? .....

0802
YES = 1

5. [Enumeration Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1, column 2?]

- YES - [Continue.]  NO - [Go to item 8.]

6. Were herbicides applied to this soybean field BEFORE weeds emerged? [If item 6 = YES, ask---]. .....

CODE
0803
YES = 1

a. Were the herbicides applied BEFORE weeds emerged on this soybean field based primarily on---

1 routine treatments of what weeds are usually present?	.....
<b>OR</b>	
2 weed scouting from the previous year?	.....

CODE
0804

7. Were herbicides applied to this soybean field AFTER weeds emerged? [If item 7 = YES, ask---]. .....

CODE
0805
YES = 1

a. Were the herbicides applied AFTER weeds emerged on this soybean field based primarily on---

1 routine treatments of what weeds are usually present?	.....
<b>OR</b>	
2 weed scouting from the current year?	.....

CODE
0806

8. [Enumeration Action: Were INSECTICIDES used (pesticide product codes 1000 – 1999), in Section D, item 1, column 2?]

- YES - [Continue.]  NO - [Go to item 10.]

9. Were the insecticides applied to this soybean field based primarily on---

1 routine treatments of what insects are usually present?	.....
<b>OR</b>	
2 scouting for insect infestation?	.....

CODE
0807

10. In 2006, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms---

1	By deliberately going to the field specifically for scouting activities? [Enter code 1 and go to item 11.]	CODE	0808
2	By conducting general observations while performing routine tasks? [Enter code 2 and go to item 13.]		
3	This field was not scouted. [Enter code 3 and go to item 18.]		

11. Was an established scouting process used (systematic sampling, recording counts, etc.) or were insect traps used in this field? ..

YES = 1

CODE	0809
------	------

12. Was scouting for pests done in this field due to---

a. a pest advisory warning? ..

YES = 1

CODE	0810
------	------

b. a pest development model? ..

YES = 1

CODE	0811
------	------

1	2	3	
	[If YES, ask---] Was the infestation level for [column 1]—	[If column 1 = YES, ask---] Who did the majority of the scouting for [column 1]---	
	1 Worse than normal 2 Normal 3 Less than normal CODE	1 Operator, partner or family member 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout CODE	
13. Was this soybean field scouted for--	YES = 1		
a. Weeds? .....	0812	0813	0814
b. Insects or			
(i) Soybean Aphids? .....	0821	0822	0823
(ii) Other insects or	0824	0825	0826
c.			
(i) Asian Soybean	0827	0828	0829
(ii) Other diseases? .....	0830	0831	0832

14. [If item 13, column 3 = 3 or 4), ask--- else go to item 15.]

How much did you pay for the scouting services for this field? [Include landlord and contractor cost]. .....

DOLLARS & CENTS PER ACRE	0835	OR	TOTAL DOLLARS	0836
--------------------------	------	----	---------------	------

a. [Note: If scouting performed at no cost, explain: \_\_\_\_\_]

OFFICE USE

0333
------

b. Did you base your management decisions regarding Asian Soybean Rust on information received from the scouting service? .....

YES = 1

CODE	0837
------	------

		CODE
15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases? .....	YES = 1	0838
16. Was scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in field? .....	YES = 1	0839
17. Did you use field mapping of previous weed problems to assist you in making weed management decisions? ..	YES = 1	0840

**18. Did you do any of the following other type(s) of pest management for the specific purpose of managing or reducing the spread of pests in this field?**

		CODE
a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field? ..	YES = 1	0841
b. Plow down crop residues (using conventional tillage)?	YES = 1	0842
c. Remove/burn down crop residue? .....	YES = 1	0843
d. Rotate crops in this field during the past 3 years? .....	YES = 1	0844
e. Maintain ground covers, mulches, or other physical barriers?	YES = 1	0845
f. Choose crop variety because of specific resistance to certain pests?	YES = 1	0846
g. Use no-till or minimum till?	YES = 1	0847
h. Plan planting locations to avoid cross infestation of pests?	YES = 1	0848
i. Adjust planting or harvesting dates?	YES = 1	0849
j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fences lines? .....	YES = 1	0850
k. Clean equipment and field implements after completing field work to reduce the spread of pests? ..	YES = 1	0851
l. Adjust row spacing, plant density or row directions?	YES = 1	0852
m. Did you apply or release any beneficial organisms?	YES = 1	0853
n. Did you have the seed used in this field treated for insect or disease control after you purchased the seed? .....	YES = 1	0854
o. Did you maintain a beneficial insect or vertebrate habitat?	YES = 1	0855
p. Did you maintain buffer strips or border rows to isolate organic soybeans from non-organic crops or land, or did you take a buffer harvest? .....	YES = 1	0856
q. Did you use a flamer to kill weeds? .....	YES = 1	0857

19. Did you detect any soybean aphids in this field? ..... CODE  
 .. 0858  
YES = 1

a. [If item 19 = YES, ask---]

**UNIT CODES**  
 1 = POUNDS  
 2 = CWT  
 3 = TONS  
 4 = BUSHELS

If untreated, how much yield loss (e.g. bushels per acre), do you think SOYBEAN APHIDS would most likely cause on this field? .....

**UNITS PER ACRE**  
 0876 0877

20. Did you detect any soybean cyst nematodes in this field? ..... CODE  
0859  
YES = 1

a. [If item 20 = YES, ask---]

**UNIT CODES**  
 1 = POUNDS  
 2 = CWT  
 3 = TONS  
 4 = BUSHELS

If untreated, how much yield loss (e.g. bushels per acre), do you think SOYBEAN CYST NEMATODES would most likely cause on this field? .....

**UNITS PER ACRE**  
 0878 0879

21. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage for pests or toxic producing fungi and bacteria (i.e. aflatoxin)? ..... CODE  
0861  
YES = 1

22. Was protection of beneficial organisms a factor in your pest control decisions for this field? ..... CODE  
 ... 0862  
YES = 1

**PEST MANAGEMENT INFORMATION**

24. [Show Pest Management Information Sources Code List from Respondent Booklet.]

**Which outside sources of information on pest management practices and products were used for the 2006 soybean crop?**

(Starting with the most influential in determining the pest management practices used on this operation, enter code(s) for up to 3 sources.)

**PEST MANAGEMENT INFORMATION SOURCES CODE LIST**

- 1 County, Cooperative, or University Extension Advisor, Publications or demonstrations
- 2 Farm Supply or Chemical Dealer
- 3 Commercial Scouting Service
- 4 Independent Crop Consultant or Pest Control Advisor/Custom Applicator
- 5 Other Growers or Producers
- 6 Producer Associations, Newsletters or Trade Magazines
- 7 Electronic Information Services (DTN, Internet, World Wide Web, etc.)
- 8 Employee Pest Advisor
- 9 Other – (Specify: \_\_\_\_\_)
- 10 None – Operator used no **outside** information source

[Enter up to 3 source codes.]

**FIRST**

0865

**SECOND**

0866

**THIRD**

0867

**CODE**

25. Other than pesticide applicator training, have you (the operator) attended any training session on pest identification and management since October 1, 2005? . . . . .

0868
------

YES = 1



**SOYBEAN RUST MANAGEMENT PRACTICES**

26. **At the beginning of the 2006 growing season what did you think was the likelihood of your farm experiencing a soybean rust infestation?** .....

1	Very likely
2	Somewhat likely
3	Uncertain
4	Somewhat unlikely
5	Very unlikely

**CODE**  
0871

27. **Did you experience an outbreak of Asian soybean rust on this field in 2006?** .....

**CODE**  
0833

YES = 1

[If item 27 is Yes, ask--- else go to item 28.]

a. When did you first become aware of the outbreak? .....

**MM DD**  
0834

28. **Whether you experienced an outbreak of Asian soybean rust or not, did you visit the USDA Public Soybean Rust Website (<http://www.sbrusa.net/>)?** .....

**CODE**  
0872

YES = 1

[If item 28 is YES, ask--- else go to Section F.]

a. Did information found on this website cause you to change your management of fungicide use (for example, to either increase or decrease) on this field? .....

**CODE**  
0873

YES = 1

[If item 28a is YES, ask--- else go to Section F.]

b. Did this change in management cause the fungicide application rate to--- .....

1	Increase?
2	Decrease?
3	No change?

**CODE**  
0874

c. Did this change in management cause the number of fungicide applications to--- .....

1	Increase?
2	Decrease?
3	No change?

**CODE**  
0875

Completion Code for Pest Management Data	
1- Incomp/R	0340

**1. Including custom operations, I need to list field work performed by machines on this field for the 2006 soybean crop. Please...**

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 2005, list operations starting with fall 2004.)
- ▶ List the operations in order through harvest and hauling of this crop to storage or first point of sale. 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?---[Skip columns 6-11.]

CHECK LIST	
<input checked="" type="checkbox"/>	Include all field work using machines for---
<input type="checkbox"/>	Land Forming/Levee Building
<input type="checkbox"/>	Tillage
<input type="checkbox"/>	Preparing for Irrigation
<input type="checkbox"/>	Planting
<input type="checkbox"/>	Fertilizer & Pesticide applications
<input type="checkbox"/>	Harvesting
<input type="checkbox"/>	Hauling to storage or first point of sale
	<b>Exclude</b>
<input type="checkbox"/>	Lime & Gypsum/landplaster applications
<input type="checkbox"/>	Non-Commercial Manure applications & Compost

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.]  CODE	[IF CUSTOM(column 5 = code 6), skip columns 6-11]					
				6  What was the size or swath of the [machine] used?	7  [Record size code.]  CODE	8  How many acres were covered?  ACRES	9  OR  How many TOTAL HOURS were spent on land forming and hauling?  HOURS	10  Which Power Source was used?  CODE	11  What was the fuel type of the tractor?  CODE
0351		0352	0353	0354	0355	0356	0359	0357	0358
0361		0362	0363	0364	0365	0366	0369	0367	0368
0371		0372	0373	0374	0375	0376	0379	0377	0378
0381		0382	0383	0384	0385	0386	0389	0387	0388
0391		0392	0393	0394	0395	0396	0399	0397	0398
0401		0402	0403	0404	0405	0406	0409	0407	0408
0411		0412	0413	0414	0415	0416	0419	0417	0418
0421		0422	0423	0424	0425	0426	0429	0427	0428
0431		0432	0433	0434	0435	0436	0439	0437	0438
0441		0442	0443	0444	0445	0446	0449	0447	0448
0451		0452	0453	0454	0455	0456	0459	0457	0458
0461		0462	0463	0464	0465	0466	0469	0467	0468
0471		0472	0473	0474	0475	0476	0479	0477	0478
0481		0482	0483	0484	0485	0486	0489	0487	0488
0491		0492	0493	0494	0495	0496	0499	0497	0498
0501		0502	0503	0504	0505	0506	0509	0507	0508
0511		0512	0513	0514	0515	0516	0519	0517	0518
0521		0522	0523	0524	0525	0526	0529	0527	0528

1/ If a truck was used for hauling, use power source code 99. If a truck was used to power another machine, use truck codes in Respondent Booklet.

OFFICE USE

ENUMERATOR NOTE: Please complete the checklist at top of page for this table.

0032

2. Now I need some additional information about your labor. Exclude labor that was reported for field work performed by machines.

Please report the paid and unpaid labor that worked on this field to produce the 2006 soybean crop.

TYPE OF WORKERS	How many hours did <sup>1</sup> (type of worker) spend on this field---		
	a. scouting for weeds, insects and diseases?  HOURS	b. irrigating?  HOURS	c. other work performed by hand?  HOURS
You (the operator)	1101	1102	1103
Partner(s)	1104	1105	1106
Unpaid workers	1107	1108	1109
Paid part-time or seasonal workers (Exclude custom and contract labor)	1110	1111	1112
Paid full-time workers (Exclude custom and contract labor)	1113	1114	1115

3. What was the average hourly wage rate paid to full-time hired workers on this field? (Exclude custom and contract workers, payroll taxes and benefits.) . . . . .	DOLLARS & CENTS PER HOUR 1116 <input style="width: 100px; height: 20px;" type="text"/>
4. What was the average hourly wage rate paid to part-time or seasonal hired workers on this field? (Exclude custom and contract workers, payroll taxes and benefits.) . . . . .	DOLLARS & CENTS PER HOUR 1117 <input style="width: 100px; height: 20px;" type="text"/>
5. Was any contract labor used on this field? . . . . . ..	CODE 1118 <input style="width: 100px; height: 20px;" type="text"/>
a. If YES, ask – What was the average cost per acre for this contract labor? (Include landlord and contractor costs.) . . . . .	DOLLARS & CENTS PER ACRE 1119 <input style="width: 100px; height: 20px;" type="text"/>
6. What percent of the total hours worked on this field by UNPAID workers was worked by children under 16 years old? . . . . .	PERCENT 1120 <input style="width: 100px; height: 20px;" type="text"/>

7. Now I need some information on how much was spent for custom services used on this field for the 2006 soybean crop.

1 CUSTOM SERVICE	2 Including landlord's/contractor's cost, how much was spent for [column 1] on this field for the 2006 soybean crop?  DOLLARS & CENTS PER ACRE
Which of these services were done for the 2006 soybean crop on this field?  [Check <input checked="" type="checkbox"/> box for each service performed; refer to item F1 if necessary.]	
<input type="checkbox"/> a. custom land preparation, shaping and/or leveling? . . . . .	1121 _____
<input type="checkbox"/> b. custom cultivating? . . . . .	1122 _____
<input type="checkbox"/> c. custom planting and/or reseeded? . . . . .	1123 _____
<input type="checkbox"/> d. custom harvesting? . . . . .	1124 _____
<input type="checkbox"/> e. custom hauling to storage or point of first sale? . . . . . ( _____ X _____ ÷ _____ = _____ Dollars & Cents per acre.)	1126 _____
<input type="checkbox"/> f. custom harvesting and hauling from field to storage or point of first sale? . . . . . ( _____ X _____ ÷ _____ = _____ Dollars & Cents per acre.)	1127 _____

8. Did you hire any technical or consultant services to make recommendations for this field? (such as for nutrient, pest control, irrigation, or precision farming recommendations)

YES - [Continue.]       NO - [Go to item 10.]

	CODE
a. Nutrient recommendations/management service? . . . . .	1129
YES = 1	
b. Collect soil or tissue samples? . . . . .	1130
YES = 1	
c. Pest control recommendations/management service? . . . . .	1131
YES = 1	
d. Pest scouting? . . . . .	1132
YES = 1	
e. Irrigation management service (i.e. irrigation scheduling)? . . . . .	1133
YES = 1	
f. Yield map or remote sensing map development/interpretation? . . . . .	1134
YES = 1	
g. Other custom or technical service? (Specify: _____) . . . . .	1135
YES = 1	

9. If YES to any of these services, what was the cost for all of these services?

(Include landlord/contractor cost.

Exclude cost of soil/tissue tests or scouting cost reported earlier.

Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.) . . . . .

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1136 _____		1137 _____

10. **Was there (will there be) a yield monitor on the equipment used to harvest this soybean field?** ..... **CODE**  
 1138  
 YES = 1

[If item 10 is YES, continue--- else go to item 11.]

a. Was there (will there be) a yield map produced from this harvest using information from the yield monitor? ..... **CODE**  
 1139  
 YES = 1

- b. Did you use the yield monitor information to---[Enter code for all that apply.]
- (i) monitor crop moisture content to determine need for crop drying? ..... **CODE**  
 1140  
 YES = 1
  - (ii) add/improve tile ..... **CODE**  
 1141  
 YES = 1
  - (iii) add/improve irrigation equipment/irrigation water application? ..... **CODE**  
 1142  
 YES = 1
  - (iv) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc)? ..... **CODE**  
 1143  
 YES = 1
  - (v) negotiate new crop leases? ..... **CODE**  
 1144  
 YES = 1
  - (vi) document yields for crop insurance, real estate tax, or farm program purposes? ..... **CODE**  
 1145  
 YES = 1
  - (vii) accurately divide crop production among partners and/or for landlord crop shares? ..... **CODE**  
 1146  
 YES = 1
  - (viii) other uses [specify \_\_\_\_\_] ..... **CODE**  
 1147  
 YES = 1

11. **During 2005 or 2006, was a GPS (Global Positioning System) device used to produce a map of the soil properties of this field?** ..... **CODE**  
 1148  
 YES = 1  
 (such as nitrate levels, PH, soil type, etc.).

[If item 11 is YES, ask—]

a. Was the information collected above based on--- ..... **CODE**  
 1149  
 YES = 1

1 soil tests from this field?  
 2 a machine that measured electrical conductivity of the soil in this field (e.g. Veris machine)?  
 3 other? Specify \_\_\_\_\_

12. **Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2006 growing season?** ..... **CODE**  
 1151  
 YES = 1  
 (Include imagery provided at no cost.).

13. **Was a variable rate applicator (i.e., variable rate technology or VRT; include on-the-go systems such as GreenSeeker) used on this field for---**

a. fertilization or liming? ..... **CODE**  
 1152  
 YES = 1

- (i) If YES, ask---Did you use a variable rate applicator for--- [Enter code "1" for all that apply.]
- (1) nitrogen applications? ..... **CODE**  
 1153  
 YES = 1
  - (2) phosphorus applications? ..... **CODE**  
 1154  
 YES = 1
  - (3) potash applications? ..... **CODE**  
 1155  
 YES = 1
  - (4) lime applications? ..... **CODE**  
 1156  
 YES = 1

(5) manure applications? .....	YES = 1	1157
b. seeding? .....	YES = 1	1158
c. pesticide applications? .....	YES = 1	1159
14. Was a guidance or auto-steering system (connected to G.P.S.) used with any machine operation on this field (e.g. light bar, assisted steering, automatic steering, etc. – <b>exclude</b> custom operations)? .....	YES = 1	1150

ACRES

1. How many acres in this field were irrigated for the 2006 soybean crop?  
 [If none, go to **Section H.**]. . . . .

1160
------

2. Now, I have some questions about irrigation systems and water used on this field for the 2006 soybean crop.

↓	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was used to irrigate this field? [Show <b>System Type Codes</b> in the Respondent Booklet. Enter <b>System Type Code</b> for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1161	1175
b. What was the total quantity of water applied to this field during the entire growing season? [Include ALL water used from both on-farm and off-farm sources.] . . . . .	INCHES PER ACRE	1162	1176
	OR TOTAL ACRE-FEET	1163	1177
[If operator cannot provide item 2b, ask (i) & (ii)---, else go to 2c]			
(i) What is the <b>total</b> number of <b>hours</b> this system was used to apply water to this field during the growing season? . . . . .	TOTAL HOURS	1164	1178
(ii) How many gallons per minute were applied? . . . . .	GALLONS PER MINUTE	1165	1179
c. What percent of the water used to irrigate this field through this system came from surface water sources? . . . . .	PERCENT	1166	1180
d. What was the number of times this field was irrigated during the growing season using this system? [Include any pre-plant irrigation.]	NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [Enter code for most common pump type.] (If more than one pump in the system, enter type for pump closest to water source.)	CODE	1168	1182
f. What was the average pumping rate? . . . . .	GALLONS PER MINUTE	1169	1183
g. [If item 2a = code 1-9 (PRESSURE SYSTEM), ask---] What was the system operating pressure? . . . . .	POUNDS PER SQUARE INCH	1170	1184
h. What was the primary motor type used to pump the water?	CODE	1171	1185
i. What was the average motor size? . . . . .	HORSEPOWER	1172	1186
j. [If NO PUMP was used (item e = 99), ask---] What was the average flow rate? . . . . .	GALLONS PER MINUTE	1173	1187
k. How many other acres on this operation were irrigated using this field's irrigation system during the 2006 growing season? (Exclude this field.)	ACRES	1174	1188

DOLLARS & CENTS  
PER ACRE

OR

TOTAL DOLLARS

3. What was the cost of the fuel or electricity used to irrigate this field? .....

1189
------

1190
------



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

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

**CODE**

1191
------

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

**PERCENT**

1192
------

b. What was the total cost for the water purchased for this field during the 2006 growing season?  
*(Include landlord and contractor costs and ditch maintenance costs.)* . . . . .

	<b>DOLLARS &amp; CENTS PER ACRE</b>	<b>OR</b>	<b>TOTAL DOLLARS</b>
1193			1194

7. *[If SIPHON TUBES were used (item 2a = 10 or 11), ask---]*

**What would be the total cost to replace all the siphon tubes used on this field?** . . . . .

**TOTAL DOLLARS**

1201
------

8. *[If POLY PIPE system were used (item 2a = 14) ask---]*

**What was the total amount spent for poly pipe used on this field during the 2006 growing season?** . . . . .

**TOTAL DOLLARS**

1202
------

9. *[If GATED PIPE system were used (item 2a = 15 or 16), ask---]*

a. What was the average diameter of gated pipe used to irrigate this field? . . . . .

**INCHES**

1203
------

b. What was the total length of gated pipe used? . . . . .

**FEET**

1204
------

10. Were wells used to supply irrigation water for this field?

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

CODE  
1205

a. How many wells were used to irrigate this field? ..

NUMBER  
1206

b. What was the average diameter of the outer well casing? ..

INCHES  
1207

c. What was the average pumping depth of these wells during the irrigation season? [Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.] ..

FEET  
1208

d. Did this well(s) have a water meter or other flow measurement device? ..

CODE  
1209  
YES = 1

e. Were other fields irrigated using water pumped from well(s) that supplied water to the selected field?

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

CODE  
1210

(i) Excluding this field, how many other acres on this operation were irrigated using the same well(s) during the 2006 growing season? ..

ACRES  
1211

11. Other than pipe that is part of the system, was any additional mainline or lateral pipe used to carry water from the source to this field?

(Include underground pipe.)

YES - [Continue.]  NO - [Go to item 12.]

a. What was the average diameter (in inches) of the most common type of this additional pipe used? ..

INCHES  
1212

b. How many feet of this additional pipe were used to bring water to this field? ..

FEET  
1213

RUN-OFF CODES	
1	retained at the end of the field?
2	reused to irrigate on the farm?
3	collected in evaporation ponds on the farm?
4	drained from the farm?
5	there is no run-off.

12. Is the run-off from this field---

CODE  
1214

1. In response to high fuel prices during the 2006 crop year for soybeans, did you:

- |  | CODE    |
|--|---------|
| a. reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications? (i.e., compared to what you would have otherwise done on this field)? . . . . . | 1220    |
| ..   | YES = 1 |
| b. leave the crop in the field to dry longer than you would have otherwise done on this field? . . . . .   | 1221    |
| ..   | YES = 1 |
| c. reduce the amount of irrigation water (i.e., compared to what you would have otherwise applied on this field)? . . . . .  | 1222    |
| ..   | YES = 1 |
| d. change other production practices on this field in response to high fuel prices? [If yes, specify _____] . . . . .  | 1223    |
| ..   | YES = 1 |

2. In response to high fertilizer prices during the 2006 crop year for soybeans, did you:

- |   |                 |
|---|-----------------|
| a. reduce the application rate of commercial nitrogen fertilizer? (i.e., compared to what you would have otherwise applied on this field)? . . . . .  | 1224            |
| .   | YES = 1         |
| [If YES, ask---]  |                 |
| (i) by what percent did you reduce the amount of commercial nitrogen fertilizer for 2006? . . . . .   | PERCENT<br>1225 |
| b. change the type of commercial nitrogen fertilizer products applied (i.e., compared to what you would have otherwise applied on this field)? [e.g. less anhydrous ammonia and more UAN]. . . . .                            | CODE<br>1226    |
| ..  | YES = 1         |
| c. increase the application rate of manure or other organic fertilizers (i.e., compared to what you would have otherwise applied on this field)? . . . . .  | 1227            |
| ..  | YES = 1         |
| d. manage fertilizer more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation (i.e., compared to what you would have otherwise done on this field)? . . . . . | 1228            |
| ..  | YES = 1         |

# CONCLUSION

## LOCATION OF SELECTED FIELD

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

What county is the soybean field

Field description . . . . .

OFFICE USE  
COUNTY FIPS  
CODE

COUNTY NAME

	0010
--	------

### FOR STATES WITH GPS UNITS ONLY

Field location . . . . .

LATITUDE

LONGITUDE

N	W
0054	0055
<small>d d . m m . s s</small>	<small>d d d . m m . s s</small>

2. [ENUMERATOR ACTION:

*Mark map to indicate where the selected organic soybean field is located.  
Be sure the "X" marked on map is in the county identified above.]*

3. We will need additional information to complete this study. We will contact you in February or March, 2007, to collect it. I'll call you then to set up a time that is good for you.

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.nass.usda.gov/> & <http://www.ers.usda.gov/>.) . . . . .

	CODE
YES = 1	0099

5. ENDING TIME

*(MILITARY)*

	HH MM
	0005

## RECORDS USE

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

a. [fertilizer  
data?]

b. [pesticide  
data?]

c. [majority of this expense  
data?]

	CODE
YES = 1	0011
YES = 1	0012
YES = 1	0013

## SUPPLEMENTS USED

7. [Record the total number of each type of supplement used to complete this

	NUMBER
FERTILIZER APPLICATIONS	0041
PESTICIDE APPLICATIONS	0042
FIELD OPERATIONS	0043

Reported by: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_

Response	9901	Respondent	9902	Mode	9903	Enum	0098	Eval.	0100	Date MM DD YY	9910	Optional	0002	Optional	0003
1-Comp		1- Op/Mgr		2-Tel											
2-R		2-Sp		3-Face-to-Face											
3-Inac		3-Acct/Bkpr													
		4-Partner													
		9-Other													
											<b>06</b>				
S/E Name															