



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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**AGRICULTURAL RESOURCE MANAGEMENT SURVEY
SOYBEAN PRODUCTION
PRACTICES and COSTS REPORT
for 2002**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 12/31/03
Project Code 906
Phase II

VERSION 02	ID _____	TRACT 01	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	NOTES

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

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

We are collecting information on practices and costs to produce soybean and need your help to make the information as accurate as possible. Authority for collection of information on the 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 0004
[MILITARY]

SCREENING BOX
0006

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

DRAFT JULY 10, 2002 V9

OFFICE USE

Completion Code 0008
3 = ZERO TARGET

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

PARTNERS:	POID _____	POID _____
<i>PARTNER NAME</i>		<i>PARTNER NAME</i>
<i>ADDRESS</i>		<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>		<i>CITY STATE ZIP PHONE NUMBER</i>
	POID _____	POID _____
<i>PARTNER NAME</i>		<i>PARTNER NAME</i>
<i>ADDRESS</i>		<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>		<i>CITY STATE ZIP PHONE NUMBER</i>

A SOYBEAN FIELD SELECTION

1. How many acres of soybeans did this operation plant for the 2002 crop year?

[> If no acres planted, review Screening Survey Information Form.
Make notes, then go to item 4 on back page.]

TOTAL
PLANTED ACRES

0019 . ____

2. How many of the total [item 1] soybean acres were--

- a. owned by this operation?
- b. rented for CASH with the payment being a fixed cash amount? ...
- c. rented for CASH with the payment being a flexible cash amount?
(Rent paid depends on prices and/or yields, or is otherwise not a fixed amount) ...
- d. rented for a SHARE of the crop?
- e. rented for some combination of CASH and SHARE of the crop? ...
- f. used rent FREE?

ACRES

0044	. ____
0045	. ____
0046	. ____
0047	. ____
0048	. ____
0049	. ____

[Total must equal item 1.]

3. I will follow a simple procedure to make a random selection from the soybean fields planted for the 2002 crop.

TOTAL NUMBER OF
FIELDS PLANTED

0020

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

[If only 1 field, enter 1
and go to item 5.]

4. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

- > [If there are more than 18 fields make sure item 3 is TOTAL fields planted, and list only the 18 fields closest to the operator's permanent residence.
- > If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

FIELD NAME, NUMBER OR DESCRIPTION

FIELD NAME, NUMBER OR DESCRIPTION

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

11 _____

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

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.
If only 1 field, enter 1.]*

SELECTED FIELD NUMBER

0021

6. **The field selected is (*field name/number/description*).**

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

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

**OFFICE USE
OY Field Substituted**

0022

B FIELD CHARACTERISTICS---SELECTED FIELD

1. How many acres of soybeans did this operation plant in this field for the 2002 crop?

ACRES
0935

2. Were 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 SHARE of the crop?
- 5 rented for some combination of CASH and SHARE of the crop?
- 6 used RENT-FREE?

CODE
0936

3. [If field is CASH RENTED (item 2 = 2, 3 or 5), ask--]

What was the cash rent paid per acre for this 2002 soybean crop?

DOLLARS & CENTS PER ACRE
0937

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
0938

5. What year did you start operating this field?

YEAR
0939

a. Do you EXPECT to be operating this field for the next 5 years (through the 2007 crop year)?

YES = 1

CODE
0940

6. On what date was this field planted?

MM DD YY
0941

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

UNIT CODES for Seeding Rate
1=POUNDS
2=CWT
4=BUSHEL
25=KERNELS/SEEDS

UNITS PER ACRE
0942

0943

a. Was the soybean seed--

- 1 DRILLED?
- 2 PLANTED IN CONVENTIONAL ROWS?
- 3 BROADCAST on this FIELD?

CODE
0944

8. [If DRILLED or PLANTED (item 7a = 1 or 2), ask--]

What was the average soybean row width?

INCHES
0945

9. Was the source of the soybean seed--

- 1 Purchased?
- 2 Homegrown or traded?
- 3 Both?

CODE
0946

a. [If item 9 = 2 or 3, ask--]

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

PERCENT
0947

(1) What was the cost per bushel for cleaning and treating this seed?

DOLLARS & CENTS PER BUSHEL
0948

10. How many acres in this field had to be reseeded to soybeans?

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

ACRES
0949

B FIELD CHARACTERISTICS---SELECTED FIELD

UNIT CODE
1 = POUNDS
2 = CWT
4 = BUSHEL
22 = ACRE
23 = 50 POUND BAG

11. **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 any seed technology fee.)

DOLLARS & CENTS PER UNIT	
0950	0951

SEED TYPE for item 12 - SOYBEAN	
1	Genetically-modified herbicide resistant seed variety (e.g. Roundup Ready)
2	Non-genetically-modified herbicide resistant seed variety (e.g. STS-soybeans)
6	None of the above

12. **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 2002?
- b. in 2001? [Leave blank if soybeans were not in this field in 2001.]

CODE
0952
0953

13. [If item 12a = 1 or 2, ask-] **Resistant seed varieties offer several benefits.**

Did you choose the resistant seed variety used on this field primarily to-

- | | |
|---|---|
| 1 | Increase yields through improved weed control? |
| 2 | Decrease herbicide input costs? |
| 3 | Decrease machinery costs? |
| 4 | Improve ability to use or ease of using reduced tillage or no-till systems? |
| 5 | Improve ability or ease of rotating crops? |
| 6 | Save management time or labor or improve ease of management? |
| 7 | Adopt more environmentally friendly practices? |
| 8 | For some other reason(s)? [Specify _____] |

CODE
0954

14. [If item 12a = 2 or 6, ask-]

Were the soybeans from this field sold (or will be sold) through a market specifically for non-genetically modified soybeans? YES = 1

CODE
0955

a. [If item 14 = YES, ask-]

What was the price premium (or the expected premium if not yet sold) received for these non-genetically modified soybeans?

CENTS per BUSHEL
0956

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

CODE
0957

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

16. Now I need information about the acres harvested (or to be harvested) and the yield from this field.

1 How many acres in the soybean field were (will be)--	2 ACRES	3 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	4 1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHELS UNIT CODES
a. harvested for beans?	0958 . ____	0959 . ____	0960
b. harvested for hay or other forage crop?	0961 . ____	0962 . ____	TONS
c. abandoned?	0963 . ____		
d. used for some other purpose?	0966 . ____		

CROP CODE LIST for item 17 PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay 11 Hay, all other 190 Barley 3 Dry Beans 85 Canola 310 Clover 6 Corn for grain 5 Corn for silage 38 Corn for seed	196 Tobacco, flue cured 193 Tobacco, burley 281 Cotton, Upland 282 Cotton, Pima 302 CRP 311 Grasses other than clover 94 Mustard 15 Oats 31 Sweetpotatoes	16 Peanuts 17 Dry Peas 20 Potatoes 21 Rice 22 Rye 98 Safflower 25 Sorghum for grain 24 Sorghum for silage	26 Soybeans 28 Sugarbeets 30 Sunflowers 142 Vegetables 163 Wheat, durum 164 Wheat, other spring 165 Wheat, winter 318 No crop planted during this period

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

1 What crop was PLANTED on this field in--	CROP NAME	CROP CODE	2 Was this crop irrigated? YES = 1	3 Was this crop no-tilled? 1/ YES = 1
a. FALL of 2001?		0969	0970	0971
b. SPRING/SUMMER of 2001?		0972	0973	0974
c. FALL of 2000?		0975	0976	0977
d. SPRING/SUMMER of 2000?		0978	0979	0980
e. FALL of 1999?		0981	0982	0983
f. SPRING/SUMMER of 1999?		0984	0985	0986

1/ Soil and previous crop residue left undisturbed from harvest to planting.

B FIELD CHARACTERISTICS---SELECTED FIELD

1	2	3
In 2002, did your land-use practices for this field include--	In what year were the (column 1) established in this field?	[If (column 1) were established before operator began operating this field, enter code 1.]
CODE	YEAR	In 2002, did (or will) the Federal or State government pay an annual rental payment for keeping this conservation practice in place? YES = 1
a. terraces? YES = 1	0987	0988
b. temporary or permanent levees? . YES = 1	0990	0991
c. grassed waterways? YES = 1	0994	0995
d. filter strips or riparian buffers on or adjoining the field? YES = 1	0998	0999
e. contour farming? YES = 1	1002	1000
f. strip cropping? YES = 1	1003	1001
g. underground outlets such as tile drainage? YES = 1	1004	
h. other drainage channels or diversions? YES = 1	1005	

19. **Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"?** YES = 1 CODE
1006

20. **Have you been notified by NRCS that this field contains a wetland?** YES = 1 1007

21. **In 2002, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field?**
(Include grassed waterways and filter strips or riparian buffers on or adjoining this field. Include assistance from any source whether paid for or free.) YES = 1 1008

22. **In 2002, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field** [Be sure to include payments for establishing grassed waterways and filter strips or riparian buffers on or adjoining the field, but exclude rental payments reported in column 3, item 18c and item 18d above.]?
(Include payments received from any source by either the owner or operator. Exclude rental payments for keeping the land in these practices.) YES = 1 1009

B FIELD CHARACTERISTICS---SELECTED FIELD

23. **During 2002, did any written plan of the following types cover this field and, if so, in what year was the plan implemented?**

(A "written plan" is a plan prepared in accordance with Federal, State or district standards.)

	CODE	YEAR IMPLEMENTED
a. Soil conservation plan specifying practices to reduce soil erosion? YES=1	1010	1011 ____ _
b. Nutrient management plan specifying practices for applying commercial fertilizer? YES=1	1012	1013 ____ _
c. Nutrient management plan specifying practices for land application of manure? YES=1	1014	1015 ____ _
d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? YES=1	1016	1017 ____ _
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? YES=1	1018	1019 ____ _

24. **Was the soybean crop on this field covered by Crop Insurance in 2002?**

CODE

- YES** - *[Enter code 1 and continue.]* **YES=1**
- NO** - *[Go to Section C.]*

1020

If YES, which coverages did you obtain?
[Enter code for all that apply.]

- a. **Basic Catastrophic Insurance** (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the price. . **YES=1**
- b. **Buy-up on Basic Federal CAT** for higher levels of yield and price protection *(such as 65% of yield and 100% price, Multiperil Crop Insurance)* **YES=1**
- c. **Revenue Insurance** include Income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance (RA). **YES=1**
- d. **Other Federal Crop Insurance** *(Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.)* **YES=1**
- e. **Other Private Crop Insurance** *(Hail, wind, freeze, etc.)* **YES=1**

1021

1022

1023

1024

1025

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 2002 soybean crop? YES=1

CODE 0230	EDIT TABLE 0201
--------------	--------------------

[If COMMERCIAL fertilizer applied, continue, else go to item 5.]

2. How many commercial fertilizer applications were made to this field for the 2002 crop (include applications made by airplanes and commercial applicators)?

NUMBER 0231

3. Now I need to record information for each application.

CHECK LIST		T-TYPE	TABLE
INCLUDE	EXCLUDE	2	001
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients	LINE 99	OFFICE USE LINES IN TABLE
<input type="checkbox"/> Fertilizer applied in the fall of 2001 and those applied earlier if this field was fallow in 2001	<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		
			0213

LINE	2 → → → MATERIALS USED			3 What quantity was applied per acre? <small>[Leave this column blank if actual nutrients were reported.]</small>	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall Before seeding 2 In the spring Before seeding 3 At seeding 4 After seeding	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In seed furrow 5 In irrigation water 6 Chisel, injected or knifed in 7 Banded/Sidedressed in or over row 8 Foliar or directed spray	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 .
09	0205	0206	0207	0208	0209	0210	0211	0212 .
10	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 0	TABLE 000	LINE 00
-------------	--------------	------------

4. Not including the cost of fertilizer materials, how much was spent for CUSTOM APPLICATION of fertilizers on this field for the 2002 soybean crop?

(Include landlord and contractor costs.
Exclude custom application of lime, gypsum & purchased manure.)
[If material and application costs can't be separated, exclude them here and record the total in item 5.]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0232		0233

5. What was the TOTAL MATERIALS cost for all fertilizer, soil conditioners, micronutrients, etc. applied to this field for the 2002 soybean crop?

(Include landlord and contractor costs.
Exclude lime, gypsum and purchased manure.
If custom applied, include the cost of materials ONLY, unless materials and application costs cannot be separated.
Include materials applied to this field before planting and during 2001 fallow period.)

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0234		0235

UNIT CODES
1=POUNDS
2=CWT
3=TONS
4=BUSHEL

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

UNITS PER ACRE		
0236		0237

7. Was a soil test for phosphorus performed on this soybean field in 2001 or 2002 for the 2002 crop?

YES = 1

CODE
0238

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

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

POUNDS PER ACRE
0239

8. Was a soil test for nitrogen performed on this soybean field in 2001 or 2002 for the 2002 crop?

YES = 1

CODE
0240

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

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

POUNDS PER ACRE
0241

9. Was a plant tissue test for nutrient deficiency performed on this field in 2001 or 2002 for the 2002 soybean crop?

YES = 1

CODE
0242

10. [If soil or plant tissue test done, ask--; else go to item 11.]

How much was spent for these soil and plant tissue tests on this field? [Include landlord and contractor costs.]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0243		0244

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

- 1 Soil/plant tissue test provided free of charge by dealer or crop consultant
- 2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 5
- 3 Some other reason

CODE
0245

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

11. **[Enumerator Action: Refer to the Fertilizer Table, column 2.**

If nitrogen (N) was applied, complete items 12 and 13.

If NO nitrogen applied, go to item 14.]

12. **Was the amount of nitrogen you decided to apply to this field based on—**

[Enter code for all that apply.]

		CODE
a.	Results of a soil or plant tissue test? YES = 1	0246
b.	Crop consultant recommendation? YES = 1	0247
c.	Fertilizer dealer recommendation? YES = 1	0248
d.	Extension service recommendation? YES = 1	0249
e.	Cost of nitrogen and/or expected commodity price? YES = 1	0250
f.	Routine practice (<i>operator's own determination based on past experience, yield goal, etc.</i>)? YES = 1	0251

13. **Did you use any product to slow the breakdown of nitrogen on this field?**

(For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain) YES = 1

0252

14. **Was lime ever applied to this field? YES = 1**

a. *[If no lime applied, go to item 15—else continue.]*

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

CODE
0253

YEARS
0254

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

TONS PER ACRE
0255

c. *[If rented, 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
0256

15. **Was sulfur applied to this field for the 2002 crop? YES = 1**

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

How many pounds of sulfur were applied per acre?

CODE
0257

POUNDS PER ACRE
0258

16. **Was gypsum applied to this field for the 2002 crop? YES = 1**

CODE
0259

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

17. Was manure applied to this field for the 2002 soybean crop?

(Exclude commercially prepared manure.)

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

CODE

0260

a. How many acres was manure applied to?

ACRES

0261	. __
------	------

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

1 - TONS
2 - GALLONS
3 - BUSHEL

CODE

0262

AND

TOTAL UNITS

0263	. __ __
------	---------

OR

UNITS PER ACRE

0264	. __ __
------	---------

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

MILES

0265	. __
------	------

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

1 - TONS
2 - GALLONS
3 - BUSHEL

CODE

0266

AND

TOTAL UNITS

0267	. __ __
------	---------

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

- (1) in the fall before planting?
- (2) in the spring before planting?
- (3) after planting?

PERCENT

0268	+
0269	+
0270	+
100%	

f. Was the manure--

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?

CODE

0271

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

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

CODE

0272

h. Was the manure--

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

CODE

0273

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

CODE

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

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

What basis was used to determine these manure application rate restrictions--

- (1) Nitrogen requirement of the crop? YES = 1
- (2) Phosphorus requirement of the crop? YES = 1

D PESTICIDE APPLICATIONS---SELECTED FIELD

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 2002 soybean crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the soybean field for the 2002 crop? YES = 1

CODE	EDIT TABLE
0320	0301

[Probe for applications made in the fall of 2001 (and those made earlier if this field was fallow). If no pesticides applied, go to Section E.]

Include defoliants, fungicides, herbicides, insecticides and pesticides.
Include biological and botanical pesticides.

Exclude fertilizers reported earlier and seed treatments.

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

Record all pesticide applications on selected field below

NOTES	LINE	2	3	4	5	6	OR	7	8
		What products were applied to this field? [Show product codes from Respondent Booklet.] PRODUCT CODE	Was this product bought in liquid or dry form? [Enter L or D.]	Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]	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?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Ounces 30 Grams	
	01	0305		0306	0307	0308		0309	0310
	02	0305		0306	0307	0308		0309	0310
	03	0305		0306	0307	0308		0309	0310
	04	0305		0306	0307	0308		0309	0310
	05	0305		0306	0307	0308		0309	0310
	06	0305		0306	0307	0308		0309	0310
	07	0305		0306	0307	0308		0309	0310
	08	0305		0306	0307	0308		0309	0310
	09	0305		0306	0307	0308		0309	0310
	10	0305		0306	0307	0308		0309	0310
	11	0305		0306	0307	0308		0309	0310
	12	0305		0306	0307	0308		0309	0310
	13	0305		0306	0307	0308		0309	0310
	14	0305		0306	0307	0308		0309	0310

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

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

D PESTICIDE APPLICATIONS---SELECTED FIELD

APPLICATION CODES for column 9	
1 Broadcast, ground without incorporation	6 Chisel/injected or knifed in
2 Broadcast, ground with incorporation	7 Banded/sidedressed 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	

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

[If column 9 = 9, then columns 6 & 10 must be blank.]

LINE	9 How was this product applied? [Enter code from above.]	10 How many acres in this field were treated with this product? ACRES	11 What was the number of times applied? NUMBER	12 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 & CENTS PER UNIT	
						UNIT CODE 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS
01	0311	0312 •	0313	0316	0317 •	0318
02	0311	0312 •	0313	0316	0317 •	0318
03	0311	0312 •	0313	0316	0317 •	0318
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 0	TABLE 000	LINE 00
-------------	--------------	------------

D PESTICIDE APPLICATIONS---SELECTED FIELD

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

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

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

OFFICE USE

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, landlord and contractor cost.)

DOLLAR & CENTS
PER ACRE

OR

TOTAL DOLLARS

0321 . ____

0322

NOTE 1: For custom applications, If respondent cannot report cost of chemical product separately from application costs, report both in item 4.

NOTE 2: If respondent cannot report TOTAL COST, itemize cost for each product in optional columns in Pesticide Table, item D1.

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

(Include operator, landlord and contractor cost, herbicides, insecticides, fungicides, surfactants, chemicals used to kill cover/nurse crop, wetting agents, growth regulators, and materials applied before planting and during 2001 fallow period.

Exclude seed treatments.)

DOLLAR & CENTS
PER ACRE

OR

TOTAL DOLLARS

0325 . ____

0326

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 2002 soybean crop.
By pests, we mean WEEDS, INSECTS and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

1. Was this field scouted for pests by--

- | | |
|---|---|
| 1 | Conducting general observations while performing routine tasks? |
| 2 | Performing deliberate scouting activities on a scheduled basis? |
| 3 | Performing systematic sampling or counting? |
| 4 | This field was not scouted for pests. |

CODE

1030

[If item 1 = 1, 2, or 3, ask--; else go to item 6.]

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	1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent crop consultant or Commercial scout?
2. Was this soybean field scouted for--		CODE
	YES=1	
a. weeds?	1031	1032 1033
b. insects--	1034	1035 1036
c. diseases (such as white mold)? . .	1040	1041 1042

3. [If scouted by crop consultant or commercial scout, ask--; else go to item 4.]

How much did you pay for the scouting services for this field?

[Include landlord and contractor cost.]

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
1043 .__		1044

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

OFFICE USE

0333

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

CODE

1045

5. Did you use scouting data and compare it to published information on infestation thresholds to determine when to take measures to control pests? . . . YES = 1

CODE

1046

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

6. [Enumerator Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, column 2?]

YES - [Continue.] NO - [Go to item 9.]

7. After planting, did you apply herbicides to this soybean field BEFORE weeds emerged? YES = 1 CODE
1047

[If item 7 = YES, ask--]

a. Did you select and apply herbicides BEFORE weeds emerged on this soybean field based primarily on--

- | | |
|-----------|---|
| 1 | expectations of what weeds are usually present each spring? |
| OR | |
| 2 | weed scouting from the previous year? |

..... CODE
1048

8. Did you apply herbicides to this soybean field AFTER weeds emerged? YES = 1 CODE
1049

[If item 8 = YES, ask--]

a. Did you select and apply herbicides AFTER weeds emerged on the soybean field based primarily on--

- | | |
|-----------|---|
| 1 | routine treatments of what weeds are usually present? |
| OR | |
| 2 | weed scouting from the current year? |

..... CODE
1050

9. [Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-1999), in Section D, column 2?]

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

10. Did you select and apply insecticides to this soybean field based primarily on--

- | | |
|-----------|---|
| 1 | routine treatments or expectations of what insects are usually present? |
| OR | |
| 2 | scouting for insect infestation? |

..... CODE
1051

OTHER PEST MANAGEMENT PRACTICES

By pests, we mean WEEDS, INSECTS and DISEASES

11. Was protection of beneficial organisms a factor in your pest control decisions for this field? YES = 1 CODE
1052

12. Did you apply or release any beneficial organisms to control pests in this field? YES = 1 CODE
1088

13. Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field? YES = 1 CODE
1053

14. Did you chose planting locations to avoid cross infestation of insects or disease? YES = 1 CODE
1054

15. Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field? YES = 1 CODE
1055

16. Did you clean equipment and implements after completing field work to reduce the spread of pests from field to field? YES = 1 CODE
1056

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

- | | | CODE |
|--|---------|------|
| 17. Did you consider pest resistance when selecting which seed variety to plant in this field? | YES = 1 | 1057 |
| 18. Did you have the seed used in this field treated for insect or disease control after you purchased the seed? | YES = 1 | 1058 |
| 19. Did you adjust planting or harvesting dates to control pests? | YES = 1 | 1059 |
| 20. Did you use soil analysis to detect the presence of soilborne pests or pathogens, such as soybean cyst nematodes, in this field? | YES = 1 | 1060 |
| 21. Did you rotate or tank mix pesticides for the primary purpose of keeping pests from becoming resistant to pesticides in this field (use pesticides with different mechanisms of action)? | YES = 1 | 1061 |
| 22. Did you adjust row spacing or plant density to control pests in this field? | YES = 1 | 1062 |
| 23. Did you remove or plow down crop residues to control pests? | YES = 1 | 1063 |
| 24. Did you rotate crops on this field during the past 3 years to control pests? | YES = 1 | 1064 |
| 25. Did you use biological pest controls on this field?
<i>[Biological pest controls include beneficial insects, floral lures, attractants or repellants applied to the field, pheromones and pheromone traps.]</i> | YES = 1 | 1065 |

a. [If item 25 = YES, ask-]

What were the TOTAL materials and application costs for all biological pest controls for this field?
[Include landlord's and contractor's share.]

DOLLARS & CENTS
PER ACRE

OR TOTAL DOLLARS

1066

1067

CODE

- | | | |
|--|---------|------|
| 26. Did you monitor weather data to help determine when to make pesticide applications? | YES = 1 | 1068 |
| 27. Did you maintain ground covers, mulches or physical barriers to reduce pest problems? | YES = 1 | 1069 |
| 28. Did you use field mapping of previous weed problems to assist you in making weed management decisions? | YES = 1 | 1070 |
| 29. Did you cultivate this field for weed control during the growing season? | YES = 1 | 1071 |

a. [If item 29 = YES, ask-]

How many times did you cultivate this field for weed control during the growing season?

NUMBER

1072

- | | | |
|---|---------|------|
| 30. Did you do any other type(s) of pest management to control pests in this field? | YES = 1 | 1073 |
|---|---------|------|

a. [If item 30 = YES, ask-]

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

OFFICE USE

1075
1076
1077

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

31. Did you detect any soybean aphids in this field in 2002? YES = 1 CODE
1080

a . [If item 31 = YES, ask-]

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

UNIT CODES	
1=POUNDS 2=CWT 3=TONS 4=BUSHEL	
UNITS PER ACRE	CODE
1081 . ____	1082

32. Did you detect any soybean cyst nematodes in this field in 2002? YES = 1 CODE
1083

a . [If item 32 = YES, ask-]

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

UNIT CODES	
1=POUNDS 2=CWT 3=TONS 4=BUSHEL	
UNITS PER ACRE	CODE
1084 . ____	1085

PEST MANAGEMENT INFORMATION

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

What was your primary outside source of information on pest management practices and products for the 2002 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 Independent Crop Consultant or Pest Control Advisor
- 5 Other Growers or Producers
- 6 Producer Associations, Newsletters or Trade Magazines
- 7 Electronic Information Services
(DTN, Internet, World Wide Web, etc.)
- 8 Other - (Specify: _____)
- 9 None - Operator used no **outside** information source

[Choose one source and enter code.]

. 1086

PEST MANAGEMENT TRAINING

34. Have you (the operator) attended any training session on pest identification and management since October 1, 2001 other than pesticide applicator training? . . . YES = 1 CODE
1087

OFFICE USE
0340

FIELD OPERATIONS --- SELECTED FIELD

1. Now I need to list all tractors and self-propelled harvesters used to produce soybeans on this selected field.

CHECK LIST	
Include	Exclude
<input type="checkbox"/> Tractors owned, rented, leased or borrowed	<input type="checkbox"/> Tractors & self propelled harvesters provided by custom operators
<input type="checkbox"/> Self propelled harvesters & combines owned, rented, leased or borrowed	<input type="checkbox"/> Harvesters & combines that are not self propelled

1	2 What tractors and self-propelled harvesters were used on this field? MAKE and MODEL	3 What was the model year? <i>(Example: 2000)</i> YEAR	4 Is this vehicle a -- 2 2-wheel drive tractor? 3 2-wheel drive tractor with front wheel assist? 4 4-wheel drive tractor? 5 crawler or other tracked-tractor? 6 other tractor? 7 self-propelled harvester? CODE	[If TRACTOR, ask--]	
				5 What is its PTO horsepower? PTO HORSEPOWER	6 Is it-- 1 diesel? 2 gasoline? 3 LP gas 9 other? CODE
1		0120 __ __ __ __	0121	0122	0123
2		0124 __ __ __ __	0125	0126	0127
3		0128 __ __ __ __	0129	0130	0131
4		0132 __ __ __ __	0133	0134	0135
5		0136 __ __ __ __	0137	0138	0139
6		0140 __ __ __ __	0141	0142	0143
7		0144 __ __ __ __	0145	0146	0147
8		0148 __ __ __ __	0149	0150	0151
9		0152 __ __ __ __	0153	0154	0155
10		0156 __ __ __ __	0157	0158	0159
11		0160 __ __ __ __	0161	0162	0163
12		0164 __ __ __ __	0165	0166	0167
13		0168 __ __ __ __	0169	0170	0171
14		0172 __ __ __ __	0173	0174	0175
15		0176 __ __ __ __	0177	0178	0179
16		0180 __ __ __ __	0181	0182	0183
17		0184 __ __ __ __	0185	0186	0187
18		0188 __ __ __ __	0189	0190	0191
19		0192 __ __ __ __	0193	0194	0195
20		0196 __ __ __ __	0197	0198	0199

F FIELD OPERATIONS --- SELECTED FIELD

2. Including custom operations, I need to list field work performed by machines on this field for the 2002 soybean crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 2001, list operations starting with fall 2000.)
- ▶ 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 --[Go to Column 11.]

CHECK LIST

Include all field work using machines for--

Land Forming/Levee Building

Tillage

Preparing for Irrigation

Planting/Cultivation

Fertilizer & Pesticide applications

Harvesting & Hauling

to storage or first point of sale

Planting and chemical operations for cover/nurse crop

Exclude

Lime & Gypsum applications



2 S E Q U E N C E	3 What operation or equipment was used?	4 [Record machine code from Respondent Booklet.]	5 Who was the machine operator? <small>[Enter code from above.]</small>	[If CUSTOM (column 5 = code 6), skip columns 6-10.]					11 In what month was this operation done?
				6 What was the size or swath of the [machine] used?	7 1 Feet 2 Row 3 Moldboard (bottoms) Hauling 4 Pounds 5 Bushels 6 Tons	8 Which tractor/ self-propelled harvester was used? <small>[Record line number from item 1.]</small> 66 Animal Drawn 77 Pick-Up 99 Self-Propelled	9 How many acres were covered? 2/	10 How many acres were covered per hour? ACRES PER HOUR	
No.		CODE	CODE		CODE		ACRES		
0351		0352	0353	0354	0355	0356	0357	0358	0359
0361		0362	0363	0364	0365	0366	0367	0368	0369
0371		0372	0373	0374	0375	0376	0377	0378	0379
0381		0382	0383	0384	0385	0386	0387	0388	0389
0391		0392	0393	0394	0395	0396	0397	0398	0399
0401		0402	0403	0404	0405	0406	0407	0408	0409
0411		0412	0413	0414	0415	0416	0417	0418	0419
0421		0422	0423	0424	0425	0426	0427	0428	0429
0431		0432	0433	0434	0435	0436	0437	0438	0439
0441		0442	0443	0444	0445	0446	0447	0448	0449
0451		0452	0453	0454	0455	0456	0457	0458	0459
0461		0462	0463	0464	0465	0466	0467	0468	0469
0471		0472	0473	0474	0475	0476	0477	0478	0479
0481		0482	0483	0484	0485	0486	0487	0488	0489
0491		0492	0493	0494	0495	0496	0497	0498	0499
0501		0502	0503	0504	0505	0506	0507	0508	0509
0511		0512	0513	0514	0515	0516	0517	0518	0519
0521		0522	0523	0524	0525	0526	0527	0528	0529

1/ If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.
 2/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade and hauling operations, enter **TOTAL HOURS**, and leave column 10 blank.

OFFICE USE

0032

F FIELD OPERATIONS --- SELECTED FIELD

3. I need some information about the additional labor, other than the labor just reported operating machines, that worked on this field.

Please report the paid and unpaid labor that worked on this field to produce the 2002 soybean crop.

TYPE OF WORKERS	1 How many hours did (type of worker) spend on this field--				2 What was the average hourly wage rate paid (type of worker)? DOLLARS & CENTS PER HOUR
	a. scouting for weeds and insects? HOURS	b. irrigating? HOURS	c. drying the harvested crop? HOURS	d. for overhead activities (moving and loading materials, and management) HOURS	
Operator, partners, family members, and other unpaid workers	1100	1101	1102	1103	
Full-time hired workers (Exclude custom and contract labor)	1105	1106	1107	1108	1109 ____ . ____
Part-time or seasonal hired workers (Exclude custom and contract labor)	1110	1111	1112	1113	1114 ____ . ____

a. Was any contract labor used on this field? YES = 1

CODE
1115

(1) If YES, ask -- What was the average cost per acre for this contract labor? (Include landlord and contractor costs.)

DOLLARS & CENTS PER ACRE
1116
____ . ____

4. [If UNPAID labor was reported, ask--]

What percent of the total hours worked on this field by UNPAID workers was worked by children under 16 years old?

PERCENT
1117

5. Now I need some information on how much was spent for custom and technical services used on this field for the 2002 soybean crop.

1 CUSTOM or TECHNICAL SERVICE	2 Including landlord's and contractor's cost, how much was spent for [column 1] on this field for the 2002 soybean crop?
Which of these services were done for the 2002 soybean crop on this field? ✓ [Check ✓ box for each service performed; refer to item 2 if necessary.]	DOLLARS & CENTS PER ACRE
<input type="checkbox"/> a. custom land preparation, shaping and/or leveling?	1118 . ____
<input type="checkbox"/> b. custom cultivating?	1119 . ____
<input type="checkbox"/> c. custom planting and/or reseeding?	1120 . ____
<input type="checkbox"/> d. custom harvesting?	1121 . ____
<input type="checkbox"/> e. custom hauling to storage or point of first sale? (____ • ____ X ____ ÷ ____ = ____ • ____ <small>Dollars & Cents per unit. X Total units hauled from field ÷ Acres harvested in field = Dollars & Cents per acre.</small>	1122 . ____
<input type="checkbox"/> f. [If custom harvesting and custom hauling cannot be separated ask—] Custom harvesting and custom hauling from this field?	1123 . ____
<input type="checkbox"/> g. other custom and/or technical services? (specify _____) (Include fees for developing yield maps and remotely sensed images, and other consultant services not previously reported. Exclude custom fertilizer, chemical applications, commercial scouting and custom drying.)	1124 . ____

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

CODE

1125

[If YES, continue; else go to item 7.]

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

1126

[If YES, ask; else go to item 6b.]

(1) Was a custom service/consultant hired to produce a map? YES = 1

1127

b. Did you use the yield monitor information to— [Enter code for all that apply.]

(1) monitor crop moisture content to determine need for crop drying? YES = 1

1128

(2) add/improve tile drainage? YES = 1

1129

(3) add/improve irrigation equipment/irrigation water application? YES = 1

1130

(4) conduct in-field experiments (e.g., compare fertilizer application rates, seed varieties, herbicides, pesticides, etc.)? YES = 1

1131

(5) negotiate new crop leases? YES = 1

1132

(6) document yields for crop insurance, real estate tax, or farm program purposes? YES = 1

1133

(7) accurately divide crop production among partners and/or for landlord crop shares? YES = 1

1134

(8) other uses [specify _____] YES = 1

1135

7. **During 2001 or 2002, was a GPS (*Global Positioning System*) device used to geo-reference and/or produce a map of the soil properties of this field, such as soil nitrate levels, pH, etc.?** YES = 1

CODE
1136
- [If item 7 = YES, ask 7a and 7b; else go to item 8.]
- a. Was a map (or will a map be) produced based on soil tests from this field? YES = 1

1137

- b. Was a map (or will a map be) produced based on a machine that measured electrical conductivity of the soil (e.g. *Veris machine*)? YES = 1

1138

8. **Did you have an airplane or satellite make an image or photograph of this field either at the start of or during the 2002 growing season?** YES = 1

CODE
1139
- a. If YES, ask -- Was a custom service/consultant hired for this activity? YES = 1

1140

9. **Was a variable rate applicator (i.e., variable rate technology or VRT) used on this field for--**
- a. fertilization or liming? YES = 1

1141

- (1) If YES, ask -- Did you use a variable rate applicator for--
[Enter code for all that apply.]
- a. nitrogen applications? YES = 1

1142

- b. phosphorous applications? YES = 1

1143

- c. potash applications? YES = 1

1144

- d. lime applications? YES = 1

1145

- e. manure applications? YES = 1

1146

- (2) If YES, ask -- Was a custom service/consultant hired for this activity? YES = 1

1147

- b. seeding? YES = 1

1148

- (1) If YES, ask -- Was a custom service/consultant hired for this activity? YES = 1

1149

- c. pesticide applications? YES = 1

1150

- (1) If YES, ask-- Was a custom service/consultant hired for this activity? YES = 1

1151

10. **Was a guidance or parallel swathing system (connected to G.P.S.) used with any machine operation on this field (e.g. light bar)?** YES = 1

1152

G IRRIGATION --- SELECTED FIELD

ACRES

1. **How many acres in this field were irrigated for the 2002 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 2002 soybean crop.**

↓	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) were used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code 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 (1) & (2)--] (1) What is the total number of hours this system was used to apply water to this field during the soybean growing season?	TOTAL HOURS	1164	1178
(2) 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 soybean 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
	1 TURBINE? 2 SUBMERSIBLE? 3 CENTRIFUGAL? 4 BOOSTER? 5 SIPHON? 99 NO PUMP-? [If code 99, go to item j.]		
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 motor type?	CODE	1171	1185
	1 DIESEL 2 GASOLINE 3 LP GAS 4 NATURAL GAS 5 ELECTRICITY 6 SOLAR POWER		
i. What was the average motor size?	HORSE-POWER	1172	1186
j. [If NO PUMP was used, ask-- (item e = 99); 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 2002 growing season? [Exclude this field.]	ACRES	1174	1188

3. 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 4.]

CODE

1189

PERCENT

1190

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

b. What was the total cost for the water purchased for this field during the 2002 growing season?
(Include landlord and contractor costs and ditch maintenance costs.)

DOLLARS & CENTS PER ACRE

1191

OR

TOTAL DOLLARS

1192

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

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

TOTAL DOLLARS

1193

5. [If POLY PIPE system was used (line a of item 2 = 14), ask--]

What was the total amount spent for poly pipe used on this field during the 2002 growing season?

TOTAL DOLLARS

1194

6. [If GATED PIPE system was used (line a of item 2 = 15 or 16), ask--]

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

INCHES

1195

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

FEET

1196

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

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

CODE

1197

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

NUMBER

1198

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

INCHES

1199

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

1200

d. Did this well(s) have a water meter or other flow measurement device? YES = 1

CODE

1201

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

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

ACRES

(1) How many other acres on this operation were irrigated using the same well(s) during the 2002 growing season?

1202

8. 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 9.]

PIPE TYPE CODES	
1	ALUMINUM - (NON-HI-PRESSURE)
2	ALUMINUM - (HI-PRESSURE)
3	STEEL
4	PLASTIC
5	OTHER (SPECIFY: _____)

a. What was the most common type of additional pipe used?

CODE

1203

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

INCHES

1204

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

FEET

1205

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

9. Is the run-off from this field-

CODE

1206

H DRYING--SELECTED FIELD

H

1. Was (or will) most of the soybean crop from this field--
(*Include landlords share.*)

- 1 Custom dried - *Continue.*
- 2 Dried other than custom dried - *go to item 3.*
- 3 Not dried - *Go to Section I.*

CODE

0830

2. [*If CUSTOM DRIED (item 1 is code 1), ask--*]

What was (will be) the cost of custom drying the soybeans
from this field?

[*If no cost, explain _____*]

CENTS PER BUSHEL OR	TOTAL DOLLARS
0831	0832

[*Go to Section I.*]

OFFICE USE

0105

3. [*If DRIED OTHER THAN CUSTOM (item 1 is code 2), ask--*]

a. Was the main fuel type used to dry soybeans from this field--

- 1 Diesel
- 2 Gasoline
- 3 LP Gas
- 4 Natural Gas
- 5 Electricity
- 6 Other

CODE

0833

b. On the average, what percent of moisture was (will be)
removed from the beans from this field?

**PERCENTAGE
POINTS**

0834 . ____

LANDLORD/CONTRACTOR COSTS

1. Did a landlord or contractor contribute any cost for the soybeans produced on this field in 2002? *[Show Landlord/Contractor Cost items in the Respondent Booklet.]*

CODE

0840

YES - *[Enter 1 and continue.]*

NO - *[Enter 3 and go to Conclusion.]*

1	2	
Which items? <i>[Check ✓ all that are YES.]</i>	<i>[For each item checked in column 1, ask--]</i> How much did your landlord and/or contractor spend for [column 1 item] for this field?	
	PERCENT	OR TOTAL DOLLARS
Seed Costs		
<input type="checkbox"/> a. Purchased seed	0841	0842
Fertilizer Costs (Exclude Lime and Gypsum.)		
<input type="checkbox"/> b. Fertilizer custom applications	0843	0844
<input type="checkbox"/> c. Fertilizer materials	0845	0846
Chemicals/Pesticides Costs		
<input type="checkbox"/> d. Chemical/pesticides custom applications	0847	0848
<input type="checkbox"/> e. Chemical/pesticides materials	0849	0850
Technical Services		
<input type="checkbox"/> f. Soil tests or plant tissue tests	0851	0852
<input type="checkbox"/> g. Scouting services	0853	0854
<input type="checkbox"/> h. Biological pest controls and their application	0855	0856
Custom Field Operations and Services		
<input type="checkbox"/> i. Custom land preparation, shaping, and/or leveling	0857	0858
<input type="checkbox"/> j. Custom cultivating	0859	0860
<input type="checkbox"/> k. Custom planting and/or reseeding	0861	0862
<input type="checkbox"/> l. Custom harvesting	0863	0864
<input type="checkbox"/> m. Custom hauling	0865	0866
<input type="checkbox"/> n. Custom drying	0867	0868
<input type="checkbox"/> o. Custom harvesting and hauling	0869	0870
<input type="checkbox"/> p. Contract and other paid labor	0871	0872
<input type="checkbox"/> q. Other custom and/or technical services	0873	0874
Drying Costs		
<input type="checkbox"/> r. Fuel and/or electricity for drying	0875	0876
<input type="checkbox"/> s. Repairs of the facilities used for drying	0877	0878
Irrigation and Water Management Costs		
<input type="checkbox"/> t. Purchased irrigation water	0879	0880
<input type="checkbox"/> u. Fuel, lubrication, and electricity for irrigation	0881	0882

NOTES and CALCULATIONS:

CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of corn on this map. What county is the selected corn field in? ..

COUNTY NAME	OFFICE USE COUNTY FIPS CODE
	0010

Field Description

NORTH CAROLINA ONLY

Field location

LATITUDE	LONGITUDE
0050	0051
N <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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.]*
3. We will need additional information to complete this study. We will contact you in February or March, 2003, to collect it. I'll call you then to set up a time that's 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.usda.gov/nass/>) YES = 1

CODE
0099

RECORDS USE	
5. [Did respondent use farm/ranch records to report--]	
a. [fertilizer data?]	YES = 1
b. [pesticide data?]	YES = 1
c. [majority of this expense data?]	YES = 1
CODE	
	0011
	0012
	0013
SUPPLEMENTS USED	
6. [Record the total number of each type of supplement used to complete this interview.]	
	FERTILIZER APPLICATIONS
	PESTICIDE APPLICATIONS
	FIELD OPERATIONS
	NUMBER
	0041
	0042
	0043
RESPONDENT	
Respondent's name [if code 3, 4, or 9]	
Phone	(_____) _____
	CODE
	0101
ENDING TIME [MILITARY]	
	MILITARY TIME H H M M
	0005
DATE:	
	MM DD YY
	0007 _____ 02
ENUMERATOR NAME	
	ENUMERATOR ID
	0098
	EVALUATION
	0100

