



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

U.S. Department of Agriculture
Rm 5805, South Building
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Washington, D.C. 20250-2000
202-720-7017

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
SOYBEAN PRODUCTION
PRACTICES REPORT
for 2000**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 10/31/03
Project Code 906
Phase II

VERSION 6	ID _____	TRACT 01	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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DATE	TIME

CONTACT RECORD
NOTES

R CODES	
3 - COMPLETE	9910
5 - OUT OF SCOPE	
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 to produce soybeans and need your help to make the information as accurate as possible. Authority for collection of information on the Soybean Production Practices Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.

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

BEGINNING TIME **H H M M**
[MILITARY] 0004

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.]

OFFICE USE
Completion Code 0008
3 = ZERO TARGET

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

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>

B FIELD CHARACTERISTICS---SELECTED FIELD

1. **How many acres of soybeans did this operation plant for the 2000 crop year?**

[> *If no acres planted, review Screening Survey Information Form. Make notes, then go to item 4 of Conclusion.*]

TOTAL PLANTED ACRES

0019

3. I will follow a simple procedure to make a random selection from the soybean fields planted for the 2000 crop.

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

TOTAL NUMBER OF FIELDS PLANTED

0020

[*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

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

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

ACRES
0935

1. **How many acres of soybeans did this operation plant in this field for the 2000 crop?**

B FIELD CHARACTERISTICS---SELECTED FIELD

2. **Were the acres in this field--** . . .

1	owned by this operation?
2	rented for CASH?
3	SHARE rented?
4	used RENT-FREE?

CODE
0936

5. **What year did you start operating this field?**

YEAR
0937

a. Do you EXPECT to be operating this field for the next 5 years (through the 2005 crop year)? YES = 1

CODE
0938

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

MM DD YY
0939

10. **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
0940 0941

12. **Was the source of the soybean seed--**

1	Purchased?
2	Homegrown or traded?
3	Both?

CODE
0942

19. **Which type of soybean seed type was used--**
[Show Seed Type Code List from Respondent Booklet, and choose one code.]

a. in this field in 2000?

CODE
0943

b. in this field in 1999?
[Leave blank if different commodity planted in 1999.]

0944

SEED TYPE - SOYBEANS	
1	Genetically-modified herbicide resistant seed variety
2	Non-genetically-modified herbicide resistant seed variety
6	Variety planted not described above

20. *[If item 19a is NOT equal 6, 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 pest (<i>weed or insect</i>) control?
2	Decrease pesticide 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)? <i>[Specify _____]</i>

CODE
0945

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

CODE
0946

22. **Now I need information about the acres harvested (or to be harvested)**

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

B

and the yields from this field.

1		2	3
How many acres in the soybean field were (will be)--		What yield per acre did you get (do you expect to get) for--	UNIT CODES 1=POUNDS 2=CWT 3=TONS 4=BUSHEL
	ACRES	UNITS PER ACRE	
a. harvested for beans?	0947 . ____	0948 . ____	0949
d. abandoned?	0950 . ____		
e. used for some other purpose?	0951 . ____		

CROP CODE LIST for item 26 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	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 <i>No crop planted during this period</i>

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

1			2
What crop was PLANTED on this field in--			Was this crop irrigated?
	CROP NAME	CROP CODE	YES = 1
a. FALL of 1999?		0952	0953
b. SPRING/SUMMER of 1999? ..		0954	0955
c. FALL of 1998?		0956	0957
d. SPRING/SUMMER of 1998? ..		0958	0959
e. FALL of 1997?		0960	0961
f. SPRING/SUMMER of 1997? ..		0962	0963

B FIELD CHARACTERISTICS---SELECTED FIELD

1	2	3
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.]	In 2000, did (or will) the Federal or State government pay an annual rental payment for keeping this conservation practice in place? [YES=1]
CODE	YEAR	
27. In 2000, did your land-use practices for this field include--		
a. terraces? YES = 1	0964	0965
b. temporary or permanent levees? YES = 1	0967	0968
c. grassed waterways? YES = 1	0970	0971
d. filter strips or riparian buffers on or adjoining the field? YES = 1	0974	0975
e. contour farming? YES = 1	0978	0976
f. strip cropping? YES = 1	0979	0977
g. underground outlets such as tile drainage? YES = 1	0980	
h. other drainage channels or diversions? YES = 1	0981	

- CODE**
28. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"? YES = 1 0982
29. Have you been notified by NRCS that this field contains a wetland? YES = 1 0983
30. In 2000, 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 0984
31. In 2000, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field [Be sure to consider grassed waterways and filter strips or riparian buffers on or adjoining this field.]?
(Include payments received from any source by either the owner or operator. Exclude rental payments for keeping the land in these practices.) YES = 1 0985

32. During 2000, did any formal plan of the following types cover this field and, if so, in what year was the plan implemented? <i>("Formal plan" is a written plan prepared in accordance with Federal, State, or Conservation district standards.)</i>	CODE	YEAR IMPLEMENTED
a. Conservation plan specifying practices to reduce soil erosion? . . . YES=1	0986	0987 ____ _
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? YES=1	0988	0989 ____ _
c. Nutrient management plan specifying practices for land application of manure only? YES=1	0990	0991 ____ _
d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? . . . YES=1	0992	0993 ____ _
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? YES=1	0994	0995 ____ _

33. Was the soybean crop on this field covered by Crop Insurance in 2000?

<input type="checkbox"/> YES - [Enter code 1 and continue.] YES=1	<table border="1"> <thead> <tr> <th data-bbox="1299 764 1554 798">CODE</th> </tr> </thead> <tbody> <tr> <td data-bbox="1299 798 1554 856">0996</td> </tr> </tbody> </table>	CODE	0996
CODE			
0996			
<input type="checkbox"/> NO - [Go to Section C.]			

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	0997
b. Buy-up insurance for higher levels of yield and price protection (such as 65% of yield and 100% price). YES=1	0998
c. Federal Revenue insurance include Income Protection (IF), Crop Revenue Coverage (CRC), and Revenue Assurance (RA). YES=1	0999
d. Other Federal Crop insurance (Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.) YES=1	1000
e. Other Private Crop insurance (Hail, wind, freeze, etc.) YES=1	1001

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 2000 soybean crop? YES=1

CODE 1002	EDIT TABLE 0201
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2. [If COMMERCIAL fertilizers were applied, continue, else go to item 7.]

3. How many trips were made across this field to apply commercial fertilizers for the 2000 crop (include applications made by airplanes and commercial applicators)?

NUMBER 1003

4. 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"/> Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999 <input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Fertilizer applied to previous crops in this field	LINE 99	OFFICE USE LINES IN TABLE	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 9 Spot treatments	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash					
01	0205	0206	0207	0208	0209	0210	0211	0212 . __
02	0205	0206	0207	0208	0209	0210	0211	0212 . __
03	0205	0206	0207	0208	0209	0210	0211	0212 . __
04	0205	0206	0207	0208	0209	0210	0211	0212 . __
05	0205	0206	0207	0208	0209	0210	0211	0212 . __
06	0205	0206	0207	0208	0209	0210	0211	0212 . __
07	0205	0206	0207	0208	0209	0210	0211	0212 . __
08	0205	0206	0207	0208	0209	0210	0211	0212 . __

T-TYPE 0	TABLE 000	LINE 00
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C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

T-TYPE 0	TABLE 000	LINE 00
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UNIT CODES
1=POUNDS
2=CWT.
4=BUSHEL

UNITS PER ACRE	
1004	1005

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

CODE

1006

8. **Was a soil test for phosphorus performed on this soybean field in 1999 or 2000 for the 2000 crop?** YES = 1

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

POUNDS PER ACRE

1007

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

CODE

1008

9. **Was a soil test for nitrogen performed on this soybean field in 1999 or 2000 for the 2000 crop?** YES = 1

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

POUNDS PER ACRE

1009

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

10. **[Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 11 and 12. If NO nitrogen applied, skip to item 13.]**

11. **Was the amount of nitrogen you decided to apply to this field based on--**

CODE

- a. Routine practice (operator's own determination based on past experience, yield goal, etc.)? YES = 1
- b. Results of a soil or plant tissue test? YES = 1
- c. Crop consultant recommendation? YES = 1
- d. Fertilizer dealer recommendation? YES = 1
- e. Extension Service recommendation? YES = 1
- f. Cost of nitrogen and/or expected commodity price? YES = 1

1010
1011
1012
1013
1014
1015

12. **Did you use any product to slow the breakdown of nitrogen on this field?** YES = 1
(For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain)

1016

13. **Was a plant tissue test performed on this field in 1999 or 2000 for the 2000 soybean crop?** YES = 1

1017

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

		CODE	
15. Is lime ever applied to this field?	YES = 1	1018	
a. [If no lime applied, go to item 16--else continue.]			
On average, how many years are there between applications of lime to this field?		YEARS 1019	
b. How many tons of lime were applied per acre the last time it was applied to this field?		TONS PER ACRE 1020	
16. Was sulfur applied to this field for the 2000 crop?			
		CODE 1021	YES = 1
a. [If sulfur applied, ask--]			
How many pounds of sulfur were applied per acre?		POUNDS PER ACRE 1022	
17. Was gypsum applied to this field for the 2000 crop?			
		CODE 1023	YES = 1
18. Were micronutrients applied to this field for the 2000 crop?			
		CODE 1024	YES = 1
a. [If micronutrients applied, ask--]			
Did the micronutrients include zinc ?		CODE 1025	YES = 1
19. Was manure applied to this field for the 2000 soybean crop? (<i>Exclude commercially prepared manure.</i>)			
<input type="checkbox"/> YES - [Enter code 1 and continue.]		CODE 1026	
<input type="checkbox"/> NO - [Go to Section D .]			
a. How many acres was manure applied to?			
		ACRES 1027	
		TONS PER ACRE 1029	OR
		TOTAL TONS 1028	
b. What was the total amount of manure applied to this field?			
		OR GALLONS PER ACRE 1031	OR
		TOTAL GALLONS 1030	
c. What is the hauling distance between the manure storage and the manured field?			
		MILES 1032	
d. How many trips did it take to complete the manure application to the entire field?			
		NUMBER 1033	
e. What was the percent of manure applied--?			
(1) in the fall before planting?		PERCENT 1034	+
(2) in the spring before planting?		1035	+
(3) after planting?		1036	+
		100%	

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

manure--continued

f. Was the manure--

- 1 Dry Broadcast *without* incorporation?
- 2 Dry Broadcast *with* incorporation?
- 3 Liquid Broadcast *without* incorporation?
- 4 Liquid Broadcast *with* incorporation?
- 5 Injected/knifed in?

CODE

1037

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 (*municipal sludge, food waste, etc.*)?
- 8 Other (*Specify _____*)?

CODE

1038

h. Was the manure--

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

CODE

1039

20. Were the manure APPLICATION RATES to this field influenced by State or local restrictions?

YES = 1

1040

a. [*If YES, ask--*]

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

(1) Nitrogen requirement of the crop?

YES = 1

CODE

1041

(2) Phosphorus requirement of the crop?

YES = 1

1042

NOTES and CALCULATIONS:

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 2000 soybean crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the soybean field for the 2000 crop? YES = 1

CODE	EDIT TABLE
1043	0301

[Probe for applications made in the fall of 1999 (and those made earlier if this field was fallow).]

[If no pesticides applied, go to Section E.]

<p>Include defoliants, fungicides, herbicides, insecticides and pesticides. Include biological and botanical pesticides.</p>	<p>Exclude fertilizers reported earlier and seed treatments.</p>
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	T-TYPE	TABLE
	3	001
LINE	OFFICE USE	
99	LINES IN TABLE	0319

NOTES	LINE	2	3	4	5	6	OR	7	8
		What products were applied to this field? [Show product codes from Respondent Booklet.]	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

D

APPLICATION CODES for column 9	
1 Broadcast, ground without incorporation	6 Chisel/injected or knifed in
2 Broadcast, ground with incorporation	7 Banded in or over row
3 Broadcast, by air (<i>Aerial application</i>)	8 Foliar or directed spray
4 In seed furrow	9 Spot treatment
5 In Irrigation water	



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

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

1. Now I have some questions about your pest management decisions and practices used on this field for the 2000 soybean crop. By pests, we mean WEEDS, INSECTS and DISEASES.

2. Let's begin with questions about scouting this field for pests.

1	YES=1	② [If YES, ask--] Who did the majority of the scouting for [column 1]-- 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? CODE
Was this soybean field scouted for--		
a. weeds?	1044	1045
b. insects?	1046	1047
c. diseases?	1048	

5. [If field SCOUTED, ask--]

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

YES = 1

CODE

1049

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

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

7. Did you apply herbicides to this soybean field BEFORE weeds emerged?

YES = 1

CODE

1050

[If item 7 = YES, ask--]

Did you decide to apply herbicides BEFORE weeds emerged on this soybean field based on--

- a. a routine treatment for weed problems experienced in previous years? YES = 1
- b. field mapping of previous weed problems? YES = 1
- c. recommendations from a chemical dealer? YES = 1
- d. recommendations from an independent crop consultant? YES = 1

1051
1052
1053
1054

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

CODE
1055

[If item 8 = YES, ask--]

Did you decide to apply herbicides AFTER weeds emerged on the soybean field based on--

- | | |
|---|------|
| a. a routine treatment? YES = 1 | 1056 |
| b. type and/or density of weed(s) present? YES = 1 | 1057 |
| c. recommendations from a <i>chemical dealer</i> ? YES = 1 | 1058 |
| d. recommendations from an <i>independent crop consultant</i> ? YES = 1 | 1059 |

9. [Enumerator Action: *Were INSECTICIDES used (pesticide product codes 1000-2000), in Section D, item 1 column 2?*]

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

10. **Did you decide to apply insecticides to this soybean field based on--**

	CODE
a. a preventative schedule? YES = 1	1060
b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1	1061
c. standard practices or history of insect problems? YES = 1	1062
d. local information (<i>from other farmers, radio, TV, newsletters, etc.</i>) that the pest was or was not present? YES = 1	1063
e. your (the operator's) own determination of the infestation level? YES = 1	1064

OTHER PEST MANAGEMENT PRACTICES

	CODE
11. Was protection of beneficial organisms a factor in your pest control decisions for this field? YES = 1	1065

	CODE
12. Did you apply or release any beneficial organisms to control pests in this field? . YES = 1	1066

	CODE
13. Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field? [<i>Exclude chemigation.</i>] YES = 1	1067

	CODE
14. Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field? YES = 1	1068

	CODE
15. Did you clean equipment and implements after completing field work to reduce the spread of pests from this field? YES = 1	1069

	CODE
16. Did you cultivate this field for weed control during the growing season? YES = 1	1070

a. [*If YES, ask--*]

	NUMBER
How many times did you cultivate this field for weed control during the growing season?	1071

	CODE
17. Did you consider pest resistance when selecting which variety to plant in this field? YES = 1	1072

	CODE
18. Did you treat the seed used in this field or purchase seed that was treated for disease control? YES = 1	1073

	CODE
19. Did you adjust planting or harvesting dates to control pests? YES = 1	1074

	CODE
20. Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field? YES = 1	1075

	CODE
21. Did you alternate pesticides (<i>use pesticides with different mechanisms of action</i>) to keep pests from becoming resistant to pesticides in this field? YES = 1	1076

	CODE
22. Did you adjust row spacing or plant density to control pests in this field? YES = 1	1077

	CODE
23. Did you rotate crops on this field during the past 3 years to control pests? YES = 1	1078

	CODE
28. Did you do any other type(s) of pest management to control pests in this field? YES = 1	1079

a. [*If YES, ask--*]

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

	CODE
_____	1080

	CODE
_____	1081

	CODE
_____	1082

PEST MANAGEMENT INFORMATION

29. [Show Pest Management Information Sources code List.]

What was your primary outside source of information on pest management recommendations for the 2000 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.]

1083

PEST MANAGEMENT TRAINING

30. Have you (the operator) attended any training session on pest identification and management since October 1, 1999? YES = 1

CODE

1084

OFFICE USE

0340

F FIELD OPERATIONS --- SELECTED FIELD

2. Including custom operations, I need to list field work performed by machines on this field for the 2000 soybean crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 1999, list operations starting with fall 1998.)
- ▶ List the operations in order **through seeding**, and
- ▶ Maintain the order of tandem hook-ups.

CODES FOR COLUMN 5

1 You (The Operator)?
 2 Partner?
 3 Unpaid Worker?
 4 Paid Part-time or Seasonal Worker?
 5 Paid Full-time Worker?
 6 Custom Operator?

CHECK LIST

Include all field work using machines for--

Land Forming
 Tillage
 Preparing for Irrigation before seeding
 Planting

Exclude

Lime & Gypsum applications
 Fertilizers & Pesticides applications
 Operations that occur after planting
 Harvesting & Hauling

2 S E Q U E N C E N O.	3 What operation or equipment was used on this field?	4 [Record machine code from Respondent Booklet.] CODE	5 Who was the machine operator-- [Enter code from above.]	[If CUSTOM (column 5 is code 6) skip columns 9 & 10.]		11 In what month and year was this operation done? MM YY
				9 How many acres were covered? 1/	10 How many acres were covered per hour?	
				ACRES	ACRES PER HOUR	
0351		0352	0353	0357 .	0358 .	0359
0361		0362	0363	0367 .	0368 .	0369
0371		0372	0373	0377 .	0378 .	0379
0381		0382	0383	0387 .	0388 .	0389
0391		0392	0393	0397 .	0398 .	0399
0401		0402	0403	0407 .	0408 .	0409
0411		0412	0413	0417 .	0418 .	0419
0421		0422	0423	0427 .	0428 .	0429
0431		0432	0433	0437 .	0438 .	0439
0441		0442	0443	0447 .	0448 .	0449
0451		0452	0453	0457 .	0458 .	0459
0461		0462	0463	0467 .	0468 .	0469
0471		0472	0473	0477 .	0478 .	0479
0481		0482	0483	0487 .	0488 .	0489
0491		0492	0493	0497 .	0498 .	0499

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, enter total HOURS, not acres. Then leave column 10 blank.

OFFICE USE

0032

CODE

8. **Was there (will there be) a yield monitor on the equipment used to harvest this soybean field?** YES = 1
- a. *[If YES, ask--]*
 Was (will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1
- (1) *[If item 8a is YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
9. **Regardless of when done, have the soil properties of this field been mapped (by grid or otherwise)?**
[Mapped is intended to mean that a GPS unit was used to geo-reference the location of different soil properties.] YES = 1
10. **Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 2000 growing season?** YES = 1
- a. *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
11. **Was variable rate technology (VRT) used for--**
- a. fertilization or liming? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
- b. seeding? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
- c. pesticide applications? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1

NOTES and CALCULATIONS:

G IRRIGATION --- SELECTED FIELD

1. How many acres in this field were irrigated for the 2000 soybean crop?

ACRES
1097

[If field irrigated, continue. If NOT irrigated, go to Section J.]

2. Now, I have some questions about the irrigation of this field for the 2000 soybean crop.

a. What type of irrigation system was used to irrigate this field?

SYSTEM TYPE CODE
1098

[Show System Type Codes. If more than 1 system used, enter Sytem Type Code for system covering the most field acres.]

b. What was the total quantity of water applied to this field during the entire growing season?

INCHES PER ACRE OR TOTAL ACRE FEET
1099 1100

[Include ALL water used from both on-farm and off-farm sources.]

[If operator cannot provide item 2b, ask--]

(1) What is the total number of hours that water was applied to this field during the growing season?

TOTAL HOURS
1101

(2) How many gallons per minute were applied?

GALLONS PER MINUTE
1102

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

PERCENT
1103

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

NUMBER
1104

3. Was any water purchased to irrigate this field?

(Include landlord's share and purchases from all sources.)

YES = 1

CODE
1105

a. [If water purchased, ask--]

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

PERCENT
1106

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

YES = 1

CODE
1107

11. Is the runoff from this field primarily--

RUNOFF CODES
1 retained at the end of the field with no re-use?
2 re-used to irrigate on the farm?
3 collected in evaporation ponds on the farm?
4 drains from the farm?
5 there is no runoff?

CODE
1108

NOTES and CALCULATIONS:

1. In 2000, was this operation's LEGAL STATUS--

- 1 Individual (Sole/family Proprietorship)?
- 2 A legal Partnership?
- 3 A Family-held Corporation?
- 4 A Non-family Corporation?
- 5 Other, Including estates, trusts and cooperatives?
(Describe _____)

CODE

0035

2. In 2000, what was your (the operator's) major occupation?

- 1 Farm or ranch work
- 2 Hired manager
- 3 Something else
- 4 Retired

CODE

0036

3. What is the highest level of formal education you (the operator) have completed?

- 1 Less than high school
- 2 High school diploma or equivalency (GED)
- 3 Some college
- 4 Completed 4 year degree (BA or BS)
- 5 Graduate school

CODE

0037

4. In what year did you (the operator) begin making day-to-day decisions for any farm/ranch?

YEAR

0038

5. Now I would like to classify the total acres operated in terms of total gross value of sales.

Considering--

- all crops sold,
- all livestock, poultry (including commercial broilers), and products (milk, eggs, etc.) sold,
- all sales of crops, livestock or poultry, produced under contract,
- all sales of any miscellaneous agricultural products,
- all government payments received,
- landlord's share of government payments and crops sold in 2000;

What code represents the total gross value of sales you expect for this operation in 2000?

- 1 Less than \$1,000
- 2 \$ 1,000 -- \$ 2,499
- 3 \$ 2,500 -- \$ 4,999
- 4 \$ 5,000 -- \$ 9,999
- 5 \$ 10,000 -- \$ 19,999
- 6 \$ 20,000 -- \$ 24,999
- 7 \$ 25,000 -- \$ 39,999
- 8 \$ 40,000 -- \$ 49,999
- 9 \$ 50,000 -- \$ 99,999
- 10 \$ 100,000 -- \$ 249,999
- 11 \$ 250,000 -- \$ 499,999
- 12 \$ 500,000 -- \$ 999,999
- 13 \$ 1,000,000 and over

CODE

0039

6. Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation?

CODE

0040

FARM TYPE CODES

1 GRAINS and OILSEEDS	8 BEEF CATTLE
2 TOBACCO	9 DAIRY
3 COTTON	10 HOGS
4 VEGETABLES and MELONS	11 SHEEP, GOATS, WOOL and MOHAIR
5 FRUIT TREE, NUTS and BERRIES	12 EQUINE
6 NURSERY, GREENHOUSE and FLORICULTURE	13 POULTRY and EGGS
7 OTHER CROPS	14 AQUACULTURE
	15 OTHER ANIMALS

LOCATION OF SELECTED FIELD

CONCLUSION

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

COUNTY NAME

OFFICE USE
COUNTY FIPS CODE

What county is the selected soybean field in?

0010

Field description

2. [ENUMERATOR ACTION:

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

4. Would you like to receive a copy of the results of this survey in the mail?

(Results will also be available on the Internet at <http://www.usda.gov/nass/>) YES = 1

CODE

0099

RECORDS USE

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

CODE

a. [fertilizer data?] YES = 1

b. [pesticide data?] YES = 1

0011

0012

SUPPLEMENTS USED

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

FERTILIZER APPLICATIONS
PESTICIDE APPLICATIONS
FIELD OPERATIONS

NUMBER

0041

0042

0043

RESPONDENT

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

CODE

0101

Respondent's name

Phone ()

MILITARY TIME
H H M M

0005

ENDING TIME [MILITARY]

MM DD YY

0007

DATE:

00

ENUMERATOR ID

0098

ENUMERATOR NAME

EVALUATION

0100