AGRICULTURAL RESOURCE MANAGEMENT SURVEY

OMB No. 0535-0218
Approval Expires: 12/31/2012
Project Code: 906
SMetaKey: 2054
Phase II

NATIONAL AGRICULTURAL STATISTICS SERVICE

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SOYBEAN PRODUCTION PRACTICES AND COSTS REPORT FOR 2012

VERSION	ID	TRACT	SUBTRACT	C-TYPE
2	__ __ __ __ __ __ __ __ __ __	01	__ __	120

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 soybeans 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. Under Title 7 of the U.S. Code and CIPSEA (Public Law 107-347), facts about your operation are kept **confidential** and used only for statistical purposes. Response is **voluntary**.

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

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

SCREENING BOX
0006

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

POID __ __ __ __ __ __ __ __ __ __	**POID** __ __ __ __ __ __ __ __ __ __
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
POID __ __ __ __ __ __ __ __ __ __	**POID** __ __ __ __ __ __ __ __ __ __
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

TOTAL PLANTED ACRES

1. **How many acres of soybeans did this operation plant for the 2012 crop year?** [*If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page*]**.** . . . . . 0050 .____

2. **I will follow a simple procedure to make a random selection from the soybean fields planted for the 2012 crop.**

TOTAL NUMBER OF FIELDS PLANTED

What is the TOTAL number of soybean fields that were planted on this operation? [*If only one field enter "1" and go to item 5.*]. 0020

3. **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 **2** 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	10
2	11
3	12
4	13
5	14
6	15
7	16
8	17
9	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 one 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 soybean field.

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

OFFICE USE
OY Field Substituted

0022

B FIELD CHARACTERISTICS---SELECTED FIELD B

1. **How many acres of soybeans did this operation plant in this field for the 2012 crop?** . . . . . ACRES 1301 .___

   a. Are the acres in this field **CERTIFIED ORGANIC**? . . . . . **YES = 1** CODE 1300

      [*If **YES**, skip 1b and ask item 2.*]

   b. Was this field transitioning into organic soybean production in 2012? . . . . . **YES = 1** 1399

2. **Were the acres in this field --** CODE 1302

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?

3. [*If field is CASH RENTED (item 2 = 2, 3 or 5), ask item 3, else go to item 4.*]

   What was the cash rent paid per acre for this 2012 soybean field? . . . . . DOLLARS & CENTS PER ACRE 1303 .___ ___

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 for the 2012 crop on the selected field? (***Include*** *the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.* ***Exclude*** *real estate tax expenses and lime costs paid by the landowner.*) . . . . . DOLLARS & CENTS PER ACRE 1305 .___ ___ **OR** TOTAL DOLLARS 1306

6. **What was the total cost for all inputs provided by any contractor for the 2012 crop on the selected field?** (***Include*** *the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying and irrigation.)* . . . . . DOLLARS & CENTS PER ACRE 1309 .___ ___ **OR** TOTAL DOLLARS 1310

7. **What year did you** (*the operator listed on the label*) **start operating this field?** . . . . . YEAR 1312 ____ ____ ____ ____

8. **On what date was this field planted?** . . . . . MM DD YY 1308 __ __ __ __ __ __

a. What was the intended purpose for the soybeans--. . . . . .

1 Animal Feed?
2 Human Consumption?
3 Seed?
4 Unknown (Delivered to elevator/grain broker)
5 Other uses [Specify: _____]

. . .

CODE 1307

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

BUSHELS PER ACRE 1311

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

1 Purchased?
2 Homegrown or traded?
3 Both?

. . . . . .

CODE 1317

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 1318

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

DOLLARS & CENTS PER BUSHEL 1321 .__ __

10. [*If any seed purchased* (item 9 = 1 or 3), *ask* --]

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

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

DOLLARS & CENTS PER UNIT	UNITS
1319 .___ ___	1320

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

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

UNITS	
1313 .___	1314

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

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

. . . . . .

CODE 1316

12. [*If Drilled or Planted* (*item 11a = 1 or 2*), *ask*---]

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

INCHES 1322

ACRES

13. **How many acres in this field had to be replanted to soybeans?**
(*Acres replanted = Number of acres times the number of times replanted*.) . . . . . 1315 .___

SEED TYPE - SOYBEANS
1 - Genetically-Modified (GM) seed variety with only **herbicide resistant** trait (*e.g. Roundup Ready*)
2 – Genetically-Modified (GM) seed variety with **stacked herbicide resistance** and high-oleic traits (*e.g. Plenish*)
3 – All other Genetically-Modified (GM) seed varieties
4 – Non-Genetically-Modified (non-GM) **herbicide resistant** seed variety (*e.g. STS-soybeans*)
5 – All other non-Genetically-Modified (non-GM) seed varieties
6 - 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.*]

CODE

a. in 2012? 1323

b. in 2011? [*Leave blank if soybeans were not on this field in 2011*.] 1324

15. [*If 14a = 4 or 5, ask*--]

CODE

Were the soybeans from this field sold (or will they be sold) **through a market specifically for non-genetically modified soybeans?** . . . . . **Yes=1** 1325

DOLLARS & CENTS PER BUSHEL

a. [If item 15 = YES, ask--]
What was the price premium (or the expected premium if not yet sold) received for these non-genetically modified soybeans? . . . . . 1326 .___ ___

16. [*If 14a = 1, 2, or 4, ask* --]

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

CODE

a. High yield? . . . . . **Yes=1** 1329

b. High protein content? . . . . . **Yes=1** 1330

c. Pest resistance? . . . . . **Yes=1** 1331

d. Herbicide resistance? . . . . . **Yes=1** 1332

e. For some other reason(s)? [Specify: _____]. . . . . **Yes=1** 1333

17. [*If 14a = 4 or 5, ask* --]

Was this seed--

		CODE
a. Certified Non GE (non GM/non GMO)?	**Yes=1**	1334
b. Certified organic?	**Yes=1**	1335

18. [*If 14a = 4 or 5, ask* --]

		CODE
Was the non-GM seed you purchased tested for the presence of genetically engineered traits?	**Yes=1**	1336

19. [*If 14a = 4 or 5, ask* --]

		CODE
Were the non-GM soybeans grown under a production contract that specified the use of a particular seed production variety?	**Yes=1**	1327

		CODE
20. **Has harvest of this field been completed?**	**Yes=1**	1328

21. **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 (*or will be*)---	**ACRES**	1 **What yield per acre did you** (*or do you expect to*) **get for soybeans---** **UNITS PER ACRE**	2 **UNIT CODE** 1 Pounds 2 CWT 3 Tons 4 Bushels **CODE**
a. harvested for grain?	1346 .____	1347 .____	1348
b. harvested for hay, silage or green chop?	1349 .____	1350 .____	TONS
c. harvested for commercial seed contract?	1431 .____	1432 .____	1433
d. abandoned?	1351 .____		
e. used for some other purpose?	1439 .____		

CROP CODE LIST for item 22 – PREVIOUSLY PLANTED CROPS			
190 Barley	3 Dry Beans	21 Rice	193 Tobacco, burley
85 Canola	17 Dry Peas	22 Rye	196 Tobacco, flue cured
310 Clover	311 Grasses other than clover	98 Safflower	42 Vegetables
6 Corn for grain	1 Hay, alfalfa	25 Sorghum for grain	163 Wheat, durum
5 Corn for silage	11 Hay, all other	24 Sorghum for silage	164 Wheat, other spring
282 Cotton, Pima	94 Mustard Seed	26 Soybeans	165 Wheat, winter
281 Cotton, Upland	15 Oats	28 Sugarbeets	
302 CRP	16 Peanuts	30 Sunflowers	318 **No crop planted** during this period
	20 Potatoes	31 Sweet Potatoes	

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

1 What crops were PLANTED on this field in---			2 Was this field no-tilled? 1/
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1
a. **FALL of 2011?**		1343	1345
b. **SPRING/SUMMER of 2011?**		1369	1371
c. **FALL of 2010?**		1372	1374
d. **SPRING/SUMMER of 2010?**		1375	1377
e. **FALL of 2009?**		1378	1380
f. **SPRING/SUMMER of 2009?**		1381	1383
g. **FALL of 2008?**		1366	1368
h. **SPRING/SUMMER of 2008?**		1340	1342

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

i. [*If a cover crop was planted in Spring/Summer/Fall 2011, ask—*

What was the seed cost per acre for the cover crop?. . . . . .

DOLLARS & CENTS PER ACRE
1468 .___ ___

23. **In 2012, did your land-use practices for this field include any of the following---**

1	2 **Was this practice used?** **YES = 1**	3 **What year was this practice first used?** **YEAR**	4 **Was (or will there be) an incentive or cost share received from:** 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Security or Conservation Stewardship Programs (CSP)? 3 Conservation Reserve Program (CRP)? 4 Any other Federal, State, Local or non-government source? **CODE**
a. Terraces.	**1420**	1441 — — — —	1451
b. Grade stabilization structures.	1422	1442 — — — —	1452
c. Grassed waterways.	1438	1443 — — — —	1453
d. Structures for water control basins.	1424	1444 — — — —	1454
e. Filter strips.	1426	1445 — — — —	1455
f. Field borders.	1427	1446 — — — —	1456
g. Riparian buffers (i.e., grass buffers).	1428	1447 — — — —	1457
h. Contour farming and strip cropping.	1434	1448 — — — —	1458
i. Conservation tillage/no-till.	**1437**	1449 — — — —	1459

OFFICE USE

1440

24. **Has the Natural Resource Conservation Service** (NRCS) **classified any part of this field as "Highly Erodible"?** (Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have (and apply) a written soil conservation plan.) (A written plan is a plan prepared in accordance with Federal, State, or district standards.) . . . . . **YES = 1**

CODE 1404

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

1405

26. **During 2012, did any written plan of the following types cover this field—** (***Include*** *HELC plans and other written plans prepared in compliance with Federal, State, or local regulation*.)

1 **WRITTEN PLAN TYPE**	2 **Was this type of written plan used?** **YES = 1**	3 **What year was this plan implemented?** **YEAR**	4 **For any practice that is part of this plan, was** (or will there be) **an incentive or cost-share payment received from:** 1 Environmental Quality Incentives Program (EQIP)? 2 Conservation Security or Conservation Stewardship Programs (CSP)? 3 Conservation Reserve Program (CRP)? 4 Any other Federal, State, Local or non-government source? **CODE**
a. Conservation plan specifying practices to reduce soil erosion?	1408	1409 ___ ___ ___ ___	1461
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure?	1410	1411 ___ ___ ___ ___	1462
c. Nutrient management plan specifying practices for land application of manure only?	1412	1413 ___ ___ ___ ___	1463
d. Pest management plan to implement Integrated Pest Management (IPM) practices to control weeds, insects, and/or plant diseases?	1414	1415 ___ ___ ___ ___	1464
e. Irrigation water management plan specifying practices for applying or conserving irrigation water?	1416	1417 ___ ___ ___ ___	1465

27. **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* 2012 *or payments that are anticipated for future years*.]. . . . . YES = 1

CODE: 1403

[*If item 27 is YES, ask item 27a; else go to item 27b.*]

a. Have you received (*or will you receive*) cost sharing or incentive payments from--

1 Environmental Quality Incentives Program (EQIP)
2 Conservation Security or Conservation Stewardship Programs (CSP)
3 Conservation Reserve Program (CRP)
4 Other Federal, State, Local or non-government source

. . . . . CODE: 1418

b. During the past 4 years, was this field included in an application that was rejected or has not yet been approved or funded under the--

1 Environmental Quality Incentives Program (EQIP)
2 Conservation Security or Conservation Stewardship Programs (CSP)
3 Conservation Reserve Program (CRP)
4 Other Federal, State, Local or non-government source

. 1419

28. **In applying for and participating in the conservation program you listed in item 27a or 27b, please indicate the approximate time you spent on the following activities:**

		HOURS
a.	Learning about the program in general, on your own or at meetings?	1352
b.	Planning or designing specific practices for your farm (on your own or in meetings with USDA staff, contractors, or others)?	1353
c.	Collecting information (e.g. field characteristics, maps, soil test results) that was needed to fill out program application forms?	1354
d.	Filling out the program application forms?	1355
e.	If your offer was accepted, understanding and signing the contract? [Enter zero if offer was not accepted.]	1356
f.	If your offer was accepted, documenting compliance after the practices were installed or adopted? [Enter zero if offer was not accepted.]	1357

29. **If you did not apply for conservation program funding for this field in the past four years, what were your reasons?**

	Agree	Neutral	Disagree	CODE
a. I was not aware of USDA or other conservation programs.	☐2	☐3	☐4	1358
b. I am not aware of environmental problems (on this field)..	☐2	☐3	☐4	1359
c. Payments are not high enough	☐2	☐3	☐4	1360
d. Government standards make practices more expensive than they need to be to get the job done..	☐2	☐3	☐4	1361
e. My offer would not have been accepted because the problems in this field are not national or state priorities.	☐2	☐3	☐4	1362
f. The application process is too complicated and time consuming.	☐2	☐3	☐4	1363
g. Documenting compliance would be too complicated and time consuming..	☐2	☐3	☐4	1364

30. **Were the soybeans in this field covered by Federal Crop Insurance in 2012**?

CODE

☐ **YES** – [*Enter code 1 and continue.*] ☐ **NO** – [*Go to item 31.*]. 1385

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

1 *Federal CAT* (basic catastrophic insurance)
2 Buy-up above federal CAT yield and/or price level
3 Revenue insurance
4 Organic plan insurance
5 Other Federal Crop insurance

. . . . . CODE 1386

b. [*If item a = 2, ask*--]

PERCENT

What was your yield level of your buy-up coverage for this field?. 1387

What was your price level of your buy-up coverage for this field?. 1388

c. [*If item a = 3, ask*--]

PERCENT

What was the level of revenue coverage you obtained for this field?. 1389

31. **If you were to plant soybeans in this field again, would you choose a higher, lower, or equal level of coverage under the same Federal crop insurance plan type as you bought this time?**

CODE

1 - Higher 2 – Lower 3 - Equal. 1392

32. **Were the soybeans in this field covered by private crop insurance in 2012** (hail, wind, freeze, etc.)**?**

CODE

☐ YES – [*Enter code 1 and continue*] ☐ NO – [*Go to* ***Section C***]. 1393

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
a. What was the premium paid for private crop insurance for this field in 2012? (***Exclude*** *any sign-up fee.*).	1395 .___ ___		1396

YEAR

b. In what year did you (*the operator listed on this label*) first purchase private crop insurance for this field? . . . . . 1397 ___ ___ ___ ___

CODE

c. Did you (*or will you*) collect an indemnity payment for this field from private crop insurance during 2012?. . . . . **YES = 1** 1394

C NUTRIENT or FERTILIZER APPLICATIONS---SELECTED FIELD C

	CODE	EDIT TABLE
1. **Were commercial nutrients or fertilizers applied to this field for the 2012 soybean crop?** . . . . . YES = 1	0202	0200

[*If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 6.*]

	NUMBER
2. **How many commercial nutrient or fertilizer applications were made to this field for the 2012 crop?** (***Include*** *applications made by airplanes and custom applicators*.)	0203

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

CHECKLIST

√	INCLUDE
☐	Custom applied nutrients and fertilizers
☐	Nutrients or fertilizers applied in the fall of 2011 and those applied earlier if this field was fallow in 2011.
☐	Commercially prepared manure or compost

√	EXCLUDE
☐	Micronutrients
☐	Unprocessed manure
☐	Nutrients or fertilizers applied to previous crops in this field
☐	Lime and Gypsum/landplaster

Office Use Lines in Table	TABLE 001	0299

APPLICATION CODES for COLUMN 6

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

LINE	2 MATERIALS USED [*Enter percentage analysis or actual pounds of plant nutrients applied per acre*.] [*Show Common Nutrients or Fertilizers in Respondent Booklet*.]				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_2O_5** Phosphate	**K_2O** Potash	**S** Sulfur					
01	31	32	33	34	36	37	38	39	40 .___
02	31	32	33	34	36	37	38	39	40 .___
03	31	32	33	34	36	37	38	39	40 .___
04	31	32	33	34	36	37	38	39	40 .___
05	31	32	33	34	36	37	38	39	40 .___
06	31	32	33	34	36	37	38	39	40 .___
07	31	32	33	34	36	37	38	39	40 .___
08	31	32	33	34	36	37	38	39	40 .___

4. **Were any nutrients or fertilizers applied by custom applicators?**

☐ **YES** - [*Continue*] ☐ **NO** - [*Go to item 5*]

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

☐ **YES** - [*Continue*] ☐ **NO** - [*Go to item 5*]

OFFICE USE

0215

b. Excluding the cost of the nutrient or fertilizer materials, how much was spent for custom application of nutrients or fertilizers on this field? (***Include*** *operator, landlord, and contractor costs.* ***Include*** *costs for sulfur and micronutrients.* ***Exclude*** *custom application of lime, gypsum, purchased manure and purchased compost.*) *[If material and application costs can't be separated, exclude them here and record the total in item 5.*]. . . . . .

DOLLARS & CENTS PER ACRE 0219 .___ ___ **OR** **TOTAL DOLLARS** 0220

5. **What was the TOTAL COST of all nutrient or fertilizer products applied to this field?** (***Include*** *operator, landlord, and contractor costs, as well as the costs for sulfur and micronutrients*. [*If custom applied and the cost of material can be separated from application costs* ***, include*** *the cost of materials ONLY; otherwise,* ***include*** *both the material and application costs.*] ***Include*** *materials applied to this field if it was fallow in 2011*. ***Exclude*** *lime, gypsum, purchased manure and purchased compost*.). . . . . .

DOLLARS & CENTS PER ACRE 0221 .___ ___ **OR** **TOTAL DOLLARS** 0222

CODE

6. **Was gypsum applied to this field for the 2012 soybean crop?** . . . . . **YES = 1** 0218

7. **Was a soil or plant tissue test performed on this soybean field in 2011 or 2012 for the 2012 crop?**

☐ **YES** [*Continue*.] ☐ **NO** [*Go to item 12*.]

CODE

8. **Was a soil test for phosphorus performed on this soybean field in 2011 or 2012 for the 2012 crop?**. . . . . **YES = 1** 0225

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

POUNDS PER ACRE

How many pounds of phosphorus (*per acre*) were recommended (*by the phosphorus test*)?. 0226

CODE

9. **Was a soil test for nitrogen performed on this soybean field in 2011 or 2012 for the 2012 crop?**. . . . . **YES = 1** 0227

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

POUNDS PER ACRE

How many pounds of nitrogen (*per acre*) were recommended (*by the nitrogen test*)?. 0228

CODE

10. **Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field for the 2012 crop?**. . . . . **YES = 1** 0229

DOLLARS & CENTS PER ACRE **OR** **TOTAL DOLLARS**

11. **How much was spent for these soil and plant tissue tests on this field?** (***Include*** *operator, 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 5.
3 Some other reason.

. . . . . **CODE** 0232

[**ENUMERATOR ACTION:** *Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 12. If NO nitrogen applied, go to item13.*]

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

			CODE
a.	Results of a soil or plant tissue test?	**YES = 1**	0233
b.	Crop consultant recommendation?	**YES = 1**	0234
c.	Fertilizer dealer recommendation?	**YES = 1**	0235
d.	Extension Service recommendation?	**YES = 1**	0236
e.	Cost of nitrogen and/or expected commodity price?	**YES = 1**	0237
f.	Contractor recommendation?	**YES = 1**	0238
g.	Routine practice (*operator's own determination based on past experience, yield goal, etc.*)?	**YES = 1**	0239

13. **Is lime ever applied to this field?** **YES = 1** — CODE 0242

[*If no lime applied, go to item 14; else continue*.]

a.	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 2011 or 2012 for the 2012 crop? **YES = 1**	CODE: 0240
d.	[*If field is rented* (Section B, item 2 = 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

14. **Was non-commercial manure** (*from own farm, from a neighbor's farm, etc.*) **or other organic material** (*excluding compost*) **applied to this field for the 2012 soybean crop?** (***Exclude*** *commercially prepared manure*.)

☐ **YES** - [*Enter code 1 and continue*] ☐ **NO** - [*Go to item16*] — CODE 0246

a. How many acres in this field 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 field?. . . . . MILES 0251 .___

d. What was the capacity of the manure spreader (*or other vehicle*) used to haul manure to this field?. . . . 1 Tons 2 Gallons 3 Bushels . . . . CODE 0252 AND TOTAL UNITS 0253 .___ ___

e. Of the total manure applied to this field for the 2012 crop, what was the percent of manure applied---

PERCENT

(i) in the fall before planting?. . . . . + 0254

(ii) in the spring before planting?. . . . . + 0255

(iii) after planting?. . . . . + 0256

100%

f. Was the manure---
1 Lagoon liquid?
2 Slurry liquid?
3 Semi-dry or dry?
. . . . . 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*)?
8 Food waste?
9 Other? [*Specify:* _____]
. . . . . CODE 0259

i. Was the manure---
1 Produced on this operation?
2 Purchased?
3 Obtained at no cost off this operation?
4 Obtained with compensation? (*Operator received payment for accepting the manure*.)
. . . . . CODE 0260

(i) [*If item 14i = 2, ask*---]

What was the total cost of the purchased manure applied to this field? (***Include*** *any payment made for transportation costs.*) . . . . . DOLLARS & CENTS PER ACRE 0284 .___ ___ OR TOTAL DOLLARS 0285

(ii) Did you hire someone to custom apply the manure? . . . . . YES = 1 CODE 0286

(a) [*If YES, ask*---]

What was the total cost paid to have manure custom applied to this field? [*Do not report custom application cost if it was included with the purchased manure cost.*]. . . . . DOLLARS & CENTS PER ACRE 0287 .___ ___ OR TOTAL DOLLARS 0288

j. Of the manure applied to this field, was any tested for nutrient content prior to application?. . . . . YES = 1 CODE 0261

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

(i) [*If YES, ask*---]

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

l. Did you adjust the soybean harvest date for this field due to the application of manure? . . . . . **YES = 1** | **CODE** 0280

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

a. [*If item 15 is YES, ask*---]

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

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

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

16. **Was compost applied to this field for the 2012 soybean crop?**

☐ **YES** - [*Enter code 1 and continue*] ☐ **NO** - [*Go to item* 17] . . . . . | **CODE** 0267

a. To how many acres in this field was the compost applied? . . . . . | **ACRES** 0268 .___

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

[Enter up to 3 source codes]

c. Were the major sources of the compost from---

1 Beef cattle?
2 Dairy cattle?
3 Hogs?
4 Sheep?
5 Poultry?
6 Equine?
7 Biosolids (*municipal sludge*)?
8 Food waste?
9 Crop? [*Specify:* _____]
10 Other? [*Specify:* _____] . . . . . .

FIRST 0281
SECOND 0282
THIRD 0283

d. Was the compost---

1 Produced on this operation?
2 Purchased?
3 Obtained at no cost off this operation?
4 Obtained with compensation? (*Operator received payment for accepting the compost.*) . . . . . .

CODE 0272

(i) [*If item 16d = 2, ask*---]

What was the total cost of the purchased compost applied to this field? (***Include*** *operator, landlord, and contractor costs and any payment made for transportation costs.*) . . . . . | **DOLLARS & CENTS PER ACRE** 0273 .___ ___ | **OR** | **TOTAL DOLLARS** 0274

CODE

(ii) Did you hire someone to custom apply the compost? . . . . . **YES = 1** 0275

(a) [*If YES, ask*---]

What was the total cost paid to have compost custom applied to this field? (***Include*** *operator, landlord, and contractor costs.*) [*Do not report custom application cost if it was included with the compost cost.*]. . . . . | **DOLLARS & CENTS PER ACRE** 0276 .___ ___ | **OR** | **TOTAL DOLLARS** 0277

MILES

(iii) [*If item 16d = 1, ask*---]

What is the distance between the compost storage/production location and this field?. . . . . 0291 .___

17. **Compared to the last time you planted soybeans, did you make any of the following changes to your cropping practices with the intent of reducing commercial fertilizer use?**

		CODE
a.	change the type of commercial fertilizer products applied on this field [e.g. less anhydrous ammonia and more UAN]. . . . . **YES=1**	1226
b.	Manage fertilizer use more closely, with such practices as soil testing, split applications, variable rate applications, or soil incorporation on this field?. . . . . **YES=1**	1228
c.	change your crop rotation [e.g. plant soybeans on this field rather than usual crop rotation]?. . . . . **YES=1**	1227
d.	reduce the application of commercial nitrogen fertilizer?. . . . . **YES=1**	1224

(i) [*If YES, ask*--]

PERCENT

By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2012?. 1225

D BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD D

Now I have some questions about all the biocontrols or pesticides used on this field for the 2012 soybean crop, including both custom applications and applications made by this operation.

	CODE	EDIT TABLE
1. **Were any herbicides, insecticides, fungicides or other chemicals used on this soybean field for the 2012 crop?** . . . . . YES = 1	0302	0300

[*Probe for applications made in the fall of 2011 (and those made earlier if this field was fallow*).]

If no biocontrols or pesticides applied, go to Section E.

Include defoliants, fungicides, herbicides, insecticides, and other pesticides.

Include biological and botanical pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

OFFICE USE LINES IN TABLE	TABLE 001	0399

CHEMICAL PRODUCT NAME	LINE	2 What products were applied to this field? [*Show product codes from Respondent Booklet.*]	3 Was this product bought in liquid or dry form? [*Enter L or D*]	4 Was this part of a tank mix? [*If tank mix, enter line number of first product in mix.*]	5 When was this applied? 1 BEFORE planting; 3 AT planting; 4 AFTER Planting; 5 *Defoliation* prior to harvest	6 How much was applied per acre per application?	OR 7 What was the total amount applied per application in this field?	8 [*Enter unit code.*] 1 Pounds; 12 Gallons; 13 Quarts; 14 Pints; 15 Liquid Ounces; 28 Dry Ounces; 30 Grams
	01	61		63	64	65 .___ ___	73 .___ ___	74
	02	61		63	64	65 .___ ___	73 .___ ___	74
	03	61		63	64	65 .___ ___	73 .___ ___	74
	04	61		63	64	65 .___ ___	73 .___ ___	74
	05	61		63	64	65 .___ ___	73 .___ ___	74
	06	61		63	64	65 .___ ___	73 .___ ___	74
	07	61		63	64	65 .___ ___	73 .___ ___	74
	08	61		63	64	65 .___ ___	73 .___ ___	74
	09	61		63	64	65 .___ ___	73 .___ ___	74
	10	61		63	64	65 .___ ___	73 .___ ___	74
	11	61		63	64	65 .___ ___	73 .___ ___	74
	12	61		63	64	65 .___ ___	73 .___ ___	74
	13	61		63	64	65 .___ ___	73 .___ ___	74
	14	61		63	64	65 .___ ___	73 .___ ___	74

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

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

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?** [*Enter code from above*.]	10 **How many acres in this field were treated with this product?** **ACRES**	11 **How many times was it applied?** **NUMBER**	12 **Were these applications made by---** 1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?
01	76	77 .___	79	80
02	76	77 .___	79	80
03	76	77 .___	79	80
04	76	77 .___	79	80
05	76	77 .___	79	80
06	76	77 .___	79	80
07	76	77 .___	79	80
08	76	77 .___	79	80
09	76	77 .___	79	80
10	76	77 .___	79	80
11	76	77 .___	79	80
12	76	77 .___	79	80
13	76	77 .___	79	80
14	76	77 .___	79	80

OPTIONAL ITEM 4

What was the cost per unit of the product?

DOLLARS & CENTS PER UNIT	UNIT CODE 1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82
81 .___ ___	82

3. **Were any chemicals, biocontrols, 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, biocontrol, and pesticide products and custom application separately?

0324

☐ **YES** – [*Continue*] ☐ **NO** – [*Go to item 4*]

	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
b. Excluding the cost of the chemical, biocontrol, and pesticide products, how much was spent for custom application of such materials on this field? (***Include*** *operator, landlord, and contractor costs.*).	0331 .___ ___		0332

4. **What was the TOTAL COST of all chemical, biocontrol, or pesticide products applied to this field?** (***Include*** *operator, landlord, and contractor costs, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, and materials applied before planting and during 2011 fallow period.* ***Exclude*** *seed treatments.*). . . . . .

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0334 .___ ___		0335

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

NOTE 2: *If custom applied and the costs for materials can be separated from application costs, include the cost for materials only. Otherwise, report both the material and application costs 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 2012 soybean crop. By pests, we mean WEEDS, INSECTS, and DISEASES.

ENUMERATOR ACTION: *Were PESTICIDE applications reported in Section D?*]

☐ **YES** – [*Continue*] ☐ **NO** – [*Go to item 6*]

		CODE
1.	**Was weather data used to assist in determining either the need or when to make pesticide applications?** . . . . . **YES = 1**	0800
2.	**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?** . . . . . **YES = 1**	0801
3.	**Were allowed pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides?** . . . . . **YES = 1**	0802

[**ENUMERATOR ACTION***: Were HERBICIDE* (pesticide product codes 40000-49999) *applications reported in Section D, item 1, column 2?*]

☐ **YES** – [*Continue*] ☐ **NO** – [*Go to item 6*]

		CODE
4.	**Were herbicides applied to this soybean field BEFORE weeds emerged?** . . . . . **YES = 1**	0803
5.	**Were herbicides applied to this soybean field AFTER weeds emerged?** . . . . . **YES = 1**	0805

6. **In 2012, 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 7.*]
2 By conducting general observations while performing routine tasks [*Enter code 2 and go to item 9.*]
3 This field was not scouted. [*Enter code 3 and go to item 14.*]

CODE 0808

7. **Was an established scouting process** (*systematic sampling, recording counts, etc.*) **used or were insect traps used in this field?** . . . . . **YES = 1** — 0809

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

a. a pest advisory warning? . . . . . **YES = 1** — 0810

b. a pest development model? . . . . . **YES = 1** — 0811

1 9. **Was this soybean field scouted for--**	**YES = 1**	2 [*If **YES**, ask*---] **Was the infestation level for** [*column 1*]— 1 Worse than normal 2 Normal 3 Less than normal **CODE**	3 [*If column 1 = **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**
a. Weeds?.	0812	0813	0814
b. Insects or mites?.	0815	0816	0817
c. Diseases?.	0818	0819	0820

[*If scouted by crop consultant or commercial scout, ask item 10; else go to item 11.*]

10. **How much was charged for the scouting services for this field?** [***Include** operator, landlord and contractor cost*.]. . . . . **DOLLARS & CENTS PER ACRE** 0821 .___ ___ **OR** **TOTAL DOLLARS** 0822

a. [*If scouting performed at no cost, explain*:_____] . . . . . **OFFICE USE** 0333

11. **Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?**. . . . . **YES = 1** **CODE** 0823

12. **Were scouting data compared to published information on infestation thresholds to determine when to take measures to manage pests in this field?**. . . . . **YES = 1** 0824

13. **Did you use field mapping of previous weed problems to assist you in making weed management decisions?**. . . . . **YES = 1** 0825

14. **Did you do any of the following other type(s) of pest management practices for the specific purpose of managing or reducing the spread of pests in this field?**
[*Enter code "1" for all that apply*.]

			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 residue (*using conventional tillage*)?	**YES = 1**	0842
c.	Remove/burn down crop residue?	**YES = 1**	0843
d.	Rotate crops in this field during the past three 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 a certain pest?	**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 fence 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.	Have the seed treated for insect or disease control after you purchased the seed for this field?	**YES = 1**	0854
n.	Maintain a beneficial insect or vertebrate habitat?	**YES = 1**	0855
o.	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
p.	Use a flamer to kill weeds?	**YES = 1**	0857
q.	Plant earlier or later to avoid weeds?	**YES = 1**	0865
15.	**Were any beneficial organisms** (insects, nematodes, fungi) **applied or released in this field to manage pests?**	**YES = 1**	0853
16.	**Were floral lures, attractants, repellants, pheromone traps or other biological pet controls used on this field?**	**YES = 1**	0858

a. [*If item 15 or item 16 is YES, ask*--]

What were the TOTAL materials and application costs for all biological pest controls for this field?
Include *cost for beneficial organisms (insects, nematodes, and fungi)*
Exclude *biological pesticides previously reported.*

DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
0859 .___ ___		0860

CODE

17. **Was a trap crop** (*excluding fallow*) **grown to help manage insects in this field?** . . . . . **YES = 1** | 0863 |

18. **Was this field left in fallow in 2011 to help manage insects on this field?** . . . . . **YES = 1** | 0864 |

19. **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?** . . . . . **YES = 1** | 0861 |

PEST MANAGEMENT INFORMATION

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

Which is the most important outside source of information on pest management practices and products used for the 2012 soybean crop?

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

CODE

. . . . . | 0826 |

CODE

21. **Did pests** (weeds, insects, diseases, animals) **cause any yield loss on this field in spite of your pest control efforts?** . . . . . **YES = 1** | 0827 |

[*If yes, ask*--]

a. How much yield loss do you think was caused by all pests on this field in spite of the management practices you used to reduce those losses? . . . . . | 1 BUSHELS
2 TONS | . . .

CODE		UNITS PER ACRE		TOTAL UNITS
0828	**AND**	0829	**OR**	0830

b. Of the total pest yield loss on this field, what was the percent of loss caused by--

		PERCENT
(i) weeds?	+	0831
(ii) insects or mites?	+	0832
(iii) plant diseases (e.g. Asian soybean rust)?	+	0833
(iv) animals (e.g. deer)?	+	0836
		100%

22. **Have you ever planted any glyphosate-resistant (GR) crop (e.g. Roundup Ready corn or soybeans) on this field?** . . . . . **YES = 1** — CODE 0867

[*If item 22 = YES, continue. If item 22 = NO, go to item 23.*]

a. What year did you first plant any GR crop on this field? . . . . . — YEAR 0868 — — — —

23. **Have you noticed a decline in the effectiveness of glyphosate** (e.g. Roundup) **in controlling weeds in this field?** . . . . . **YES = 1** — CODE 0834

[*If item 23 = YES, continue. If item 23 = NO, go to item 25.*]

a. What was the first year you noticed a decline in effectiveness of glyphosate in controlling weeds on this field? . . . . . — YEAR 0835 — — — —

24. **After noticing the decline in the effectiveness of glyphosate in controlling weeds on this field, did you--**

		CODE
a. stop planting GR crops?	**YES = 1**	0837
b. change use of other herbicides?	**YES = 1**	0838
c. change tillage practices?	**YES = 1**	0839
d. change use of glyphosate?	1 Increased use 2 Decreased use 3 Stopped use 4 Did not change use	0840

[*If item 22 = YES, ask; otherwise go to Section F*]

25. **Considering each year you planted a GR crop on this field, have you ever used the following practices in order to reduce the rate that glyphosate resistance develops in weeds on this field?**

1 **RESISTANCE MANAGEMENT PRACTICE**	2 **YES = 1**	3 **How often did you use this practice on this field?** **1 Every Year** **2 Every Other Year** **3 Multiple Years** **4 One Year** **CODE**	4 **Did the cost of managing weeds on this field increase as a result of your use of the practice?** **1 Yes** **2 No** **3 Don't Know** **CODE**
a. Control weeds early	0886	0871	0878
b. Control weed escapes	0887	0872	0879
c. Clean equipment between moving from one field to the next	0888	0873	0880
d. Use herbicides other than glyphosate	0889	0874	0881
e. Use tillage	0890	0875	0882
f. Use the herbicide label recommended application rate	0891	0876	0883
g. Rotate crops	0892	0877	0884

[*If item 25 column 2 contains at least one "1", ask: otherwise go to Section F.*]

26. **Considering the above practices (i.e. a-g) do you believe resistance management practices are or would be more effective in reducing the rate that herbicide resistance develops in weeds on this field if operators of nearby farms also use them?** . . . . . .

1 – Yes
2 – No
3 – Don't Know
4 – The nearest farm is too far away to affect this field

. . . . . .

CODE
0885

Completion Code for Pest Management Data	
1 Incomplete/Refusal	500

F FIELD OPERATIONS--SELECTED FIELD F

1. **Including custom operations, I need to list field work performed by machines on this field for the 2012 soybean crop. Please…**

   ► begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop harvested [*if fallow during* 2011*, list operations starting with fall 2010*];

   ► 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

OFFICE USE LINES IN TABLE	TABLE 001	0499

CHECK LIST

Include all field work using machines for---
- ☐ Land Forming/Levee Building
- ☐ Tillage
- ☐ Preparing for Irrigation
- ☐ Planting
- ☐ Fertilizer & Pesticide applications
- ☐ Harvesting & Hauling to storage or first point of sale

Exclude
- ☐ Lime & Gypsum/landplaster applications
- ☐ Non-Commercial Manure applications & Compost

					[IF CUSTOM(*column 5 = code 6*), *skip columns 6-11*]						
	2	3	4	5	6	7	8 OR 9		10	11	
LINE	SEQUENCE	**What operation or equipment was used?**	[*Record machine code from Respondent Booklet.*]	**Who was the machine operator-** [*Enter code from above.*]	**What was the size or swath of the** [*machine*] **used?**	[*Record size unit code.*] 1 Feet 2 Row 3 Moldboard (*bottoms*) **Hauling** 4 Pounds 5 Bushels 6 Tons	**How many acres were covered?** [*Exclude land forming and hauling operations*]	**How many TOTAL HOURS were spent on land forming and hauling?** [*Example: backhoes, disk border maker, ditcher, rear mounted blade, trucks, wagons, forklifts, etc.*]	**Which Power Source was used?** **Tractors:** 1= (<40 HP) 2= (40-99 HP) 3= (100-149 HP) 4= (150-199 HP) 5= (>=200 HP) **Other:** 66=Animal Drawn 77=Pick up 99=Self Propelled **1/**	**What was the fuel type of the tractor?** [*Record fuel type only if Power code equals 1-5*] 1=diesel 2=gasoline 3=LP gas 4=other	
No.	No.		CODE	CODE		CODE	ACRES	HOURS	CODE	CODE	
01	87		88	89	90	91	92 .___	93	94	95	
02	87		88	89	90	91	92 .___	93	94	95	
03	87		88	89	90	91	92 .___	93	94	95	
04	87		88	89	90	91	92 .___	93	94	95	
05	87		88	89	90	91	92 .___	93	94	95	
06	87		88	89	90	91	92 .___	93	94	95	
07	87		88	89	90	91	92 .___	93	94	95	
08	87		88	89	90	91	92 .___	93	94	95	
09	87		88	89	90	91	92 .___	93	94	95	
10	87		88	89	90	91	92 .___	93	94	95	
11	87		88	89	90	91	92 .___	93	94	95	
12	87		88	89	90	91	92 .___	93	94	95	
13	87		88	89	90	91	92 .___	93	94	95	
14	87		88	89	90	91	92 .___	93	94	95	
15	87		88	89	90	91	92 .___	93	94	95	
16	87		88	89	90	91	92 .___	93	94	95	
17	87		88	89	90	91	92 .___	93	94	95	
18	87		88	89	90	91	92 .___	93	94	95	

1/ *If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet.*

OFFICE USE

0400

2. **Now I need some additional information about your labor.**

Please report the paid and unpaid labor that worked on this field to produce the 2012 soybean crop. ***Exclude*** *labor that was reported for field work performed by machines.*

	1 **How many hours did** (*type of worker*) **spend on this field---**		
TYPE OF WORKERS	a. scouting for weeds, insects and diseases? **HOURS**	b. irrigating? **HOURS**	c. performing other work 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

DOLLARS & CENTS PER HOUR

3. **What was the average hourly wage rate paid to part-time or seasonal hired workers?** (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . 1119 .___ ___

DOLLARS & CENTS PER HOUR

4. **What was the average hourly wage rate paid to full-time hired workers?** (***Exclude*** *custom and contract workers, payroll taxes and benefits.*). . . . . 1118 .___ ___

CODE

5. **Was any contract labor used on this field?**. . . . . **YES = 1** 1116

DOLLARS & CENTS PER ACRE

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

What was the average cost per acre for this contract labor? (***Include*** *operator, landlord, and contractor costs*.). . . . . 1117 .___ ___

PERCENT

6. **What percent of the total number of unpaid hours worked on this field was performed by workers under 16 years of age?** (*Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.*) 1120

7. **Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2012 soybean crop.**

✓	1 **CUSTOM SERVICE** **Which of the following services were performed for the 2012 soybean crop on this field?** ← [*Check box for each service performed; refer to item 1 if necessary*.]	2 **Including operator, landlord, and contractor costs, how much was spent for** [*column 1*] **on this field for the 2012 soybean crop?** **DOLLARS & CENTS PER ACRE**
☐	a. Custom land preparation, shaping and/or leveling __ __.__ __ x _____ =_____÷ _____ = __ __.__ __ (Cost per hour X Total hours = Total dollars ÷ Total acres in the field = Dollars & cents per acre)	1121 .___ ___
☐	b. Custom cultivating	1122 .___ ___
☐	c. Custom planting and/or reseeding	1123 .___ ___
☐	d. Custom harvesting	1124 .___ ___
☐	e. Custom hauling to storage or point of first sale __ __.__ __ x _____ ÷ _____ = __ __.__ __ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1126 .___ ___
☐	f. Custom harvesting and hauling from field to storage or point of first sale __ __.__ __ x _____ ÷ _____ = __ __.__ __ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre) . .	1127 .___ ___
☐	g. Custom raking, baling, and hauling the hay from this field __ __.__ __ x _____ ÷ _____ = __ __.__ __ (Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)	1128 .___ ___

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

☐ **YES** – [*Continue*] ☐ **NO** – [*Go to item 10*]

Which of the following services did you obtain?

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

9. **If YES to any of these services, what was the cost for all of these services?** (***Include*** *operator, landlord, and contractor costs.* ***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** 1136 .___ ___ **OR** **TOTAL DOLLARS** 1137

CODE

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

[*If YES, continue; else go to item 11*]

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

b. Did you use the yield monitor information to---

(i) monitor crop moisture content to determine need for crop drying? . . . . . **YES = 1** | 1140

(ii) add/improve tile drainage? . . . . . **YES = 1** | 1141

(iii) negotiate new crop leases? . . . . . **YES = 1** | 1144

(iv) other uses [*specify:* _____] . . . . . **YES = 1** | 1147

11. **During 2011 or 2012, was a GPS** (*Global Positioning System*) **device used to produce a map of the soil properties** (*such as nitrate levels, PH, soil type, etc*.) **of this field?** . . . . . **YES = 1** | 1148

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

Was the information collected above based on---

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:* _____]

. . . . . | 1149

12. **Did you have an airplane or satellite provide an image or photograph of this field either at the start or during the 2012 growing season?** . . . . . **YES = 1** | 1151

13. **Was a variable rate applicator used on this field for---**

a. fertilization or lime application? . . . . . **YES = 1** | 1152

b. seeding? . . . . . **YES = 1** | 1158

c. pesticide applications? . . . . . **YES = 1** | 1159

14. **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** | 1150

G IRRIGATION G

1. **How many acres in this field were irrigated for the 2012 soybean crop?**
[*If none, go to* ***Conclusion***]. . . . . **ACRES** 1160 .___

2. **Now, I have some questions about irrigation systems and water used on this field for the 2012 soybean crop.**

	UNIT	SYSTEM 1	SYSTEM 2
a. What type(s) of irrigation system(s) was (*or 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 OR TOTAL ACRE-FEET	1162 1163	1176 1177
[*If operator cannot provide item 2b, ask (i) & (ii), else go to 2c*]			
(i) 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
(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 soybean growing season using this system? (***Include*** *any pre-plant irrigation*.).	NUMBER OF IRRIGATIONS	1167	1181
e. Was the pump type--- [*If more than one pump in the system, enter type for pump closest to water source.*] 1 **TURBINE?** 2 **SUBMERSIBLE?** 3 **CENTRIFUGAL?** 4 **BOOSTER?** 5 **SIPHON?** 99 **NO PUMP?** [*If code 99, go to item j.*]	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? 1 **DIESEL** 2 **GASOLINE** 3 **LP GAS** 4 **NATURAL GAS** 5 **ELECTRICITY** 6 **SOLAR POWER**	CODE	1171	1185
i. What was the average motor size?.	HORSEPOWER	1172	1186
j. [*If NO PUMP was used* (item 2e = 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 2012 growing season? (***Exclude*** *this field*.).	ACRES	1174 .___	1188 .___

3. **What was the cost of the fuel or electricity used to irrigate this field?** (***Include*** *operator, landlord, and contractor costs*.). . . . . DOLLARS & CENTS PER ACRE 1189 .___ ___ OR TOTAL DOLLARS 1190

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

CODE 1191

☐ **YES** – [*Enter code 1 and continue*.] ☐ **NO** – [*Go to item 5.*]. . . . . .

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 2012 growing season? (***Include*** *operator, landlord, and contractor costs and ditch maintenance costs for this field*.). . . . . DOLLARS & CENTS PER ACRE 1193 .___ ___ OR TOTAL DOLLARS 1194

5. [*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

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

What was the total amount spent for poly pipe used on this field during the 2012 growing season? (***Include*** *operator, landlord, and contractor costs*.). . . . . TOTAL DOLLARS 1202

7. [*If GATED PIPE system was 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

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

CODE 1205

☐ **YES** – [*Enter code 1 and continue*] ☐ **NO** – [*Go to item 9*]. . . . . .

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 the well(s) have a water meter or other flow measurement device?. . . . . **YES = 1** CODE 1209

e. Were other fields irrigated using water pumped from wells that supplied water to the selected field?

CODE 1210

☐ **YES** – [*Enter code 1 and continue*] ☐ **NO** – [*Go to item 9*]. . . . . .

f. Excluding this field, how many other acres on this operation were irrigated using the same wells during the 2012 growing season?. . . . . ACRES 1211 .___

9. **Was any additional mainline or lateral pipe used to carry water from the source to the system in this field?** (***Include*** *underground pipe.* ***Exclude*** *any system pipe within the selected field.*)

☐ **YES** – [*Continue*] ☐ **NO** – [*Go to* ***Conclusion***]

INCHES

a. What was the average diameter (*in inches*) of the most common type of this additional pipe used?. 1212

FEET

b. How many feet of this additional pipe were used to bring water to this field?. 1213

CODE

10. **Did you reduce the water applied to this field in 2012 due to reduced availability of water supplies?**. . . . . **YES = 1** 1215

CONCLUSION

LOCATION OF SELECTED FIELD

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

	COUNTY NAME	OFFICE USE COUNTY FIPS CODE
2. **What county is the selected soybean field in?**		0010
Field description		

FOR STATES WITH GPS UNITS ONLY

		LATITUDE		LONGITUDE
Field location	**N**	0054 __ __ . __ __ . __ __ (d d m m s s)	**W**	0055 __ __ __ . __ __ . __ __ (d d d m m s s)

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

4. **We will need additional information to complete this study. We will contact you in January 2013 to collect it.**

	CODE
5. **To receive the complete results of this survey on the release date, go to www.nass.usda.gov/results/. Would you rather have a brief summary mailed to you at a later date?** . . . . . **YES = 1**	0099
	HH MM
6. **ENDING TIME** [*MILITARY*]	0005 __ __ __ __

RECORDS USE

7. [*Did respondent use farm/ranch records to report---*]		CODE
a. [***fertilizer*** *data*?]	**YES = 1**	0011
b. [***pesticide*** *data?*]	**YES = 1**	0012
c. [*majority of this* ***expense*** *data*?]	**YES = 1**	0013

SUPPLEMENTS USED

8. [*Record the total number of each type of supplement used to complete this interview.*]		NUMBER
	FERTILIZER APPLICATIONS	0041
	PESTICIDE APPLICATIONS	0042
	FIELD OPERATIONS	0043

Reported by:_____	9910 __ __ __ __ **12** (M M D D)	9911 Telephone: (_____)_____

Office Use													
Response		**Respondent**		**Mode**		**Enum**	**Eval**	**R. Unit**	**Change**	**Optional Use**			
1 - Comp 2- R 3 – Inac 4 – Office Hold	9901	1 - Op/Mgr 2 – Sp 3 – Acct/Bkpr 4 – Partner 9 - Other	9902	2 – Tel 3 – Face-to-Face	9903	0098	0100	0921	0785	0002	0003	9906	9916
S/E Name													