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#### AGRICULTURAL RESOURCE MANAGEMENT SURVEY

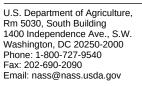
# WINTER WHEAT



NATIONAL AGRICULTURAL STATISTICS SERVICE

PRODUCTION PRACTICES AND COSTS REPORT

for 2009



VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE	
31		01		0	000	00	

		CONTACT RECORD
DATE	TIME	NOTES

#### **INTRODUCTION:**

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

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

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

#### ННММ

BEGINNING TIME	0004
[MILITARY]	

#### SCREENING BOX

[Name, address and pa	rtners verifi	ed and update	ed 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

# WINTER WHEAT FIELD SELECTION

	то
How many acres of wheat (winter, durum and other spring) did this operation plant for the 2009 crop year? [For winter wheat, record acres planted in fall/winter 2008 for 2009 crop year.]	005

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

Of the total (item 1), how many acres were planted for---

Α

1

9

- winter wheat?.... a. b. durum wheat?..... other spring wheat?..... C.
- 2. I will follow a simple procedure to make a random selection from the winter wheat fields planted for the 2009 crop.

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

#### Please list these fields according to identifying name/number or describe each field. 3. 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

10

18

005

# TOTAL ACRES 0051 0052 0053

#### TOTAL NUMBER OF FIELDS PLANTED

# 0020

# FIELD NAME, NUMBER OR DESCRIPTION

TAL	PLAN	ITED	ACRES
0			

Α

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.]....

0021

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

During this interview, the winter wheat questions will be about this selected winter wheat field. [Be sure the operator can identify the selected field.]

OFFICE USE OY Field Substituted

SELECTED FIELD NUMBER

# FIELD CHARACTERISTICS --- SELECTED FIELD

В	FIELD CHARACTERISTICSSELECTED FIELD	В
1.	How many acres of winter wheat did this operation plant in this field for the 2009 crop?	ACRES
	a. Are the acres in this field <b>CERTIFIED ORGANIC</b> ? <b>YES</b> = 1 [ <i>If YES, skip 1b and ask item 2.</i> ]	CODE
	b. Was this field transitioning into organic winter wheat production in 2009? YES = 1	1399 L
2.	Were the acres in this field       1 owned by this operation?         2 rented for CASH with the payment being a fixed cash amount?         3 rented for CASH with the payment being a flexible cash amount?         4 rented for a SHARE of the crop?         5 rented for some combination of CASH and SHARE of the crop?         6 used RENT FREE?	<b>CODE</b> 1302
3.	[ <i>If field is CASH RENTED</i> (item 2 = 2, 3, or 5), <i>ask item 3</i> ; <i>else go to item 4</i> .] What was the cash rent paid per acre for this 2009 winter wheat field?	DOLLARS & CENTS PER ACRE
4.	[ <i>If field is SHARE RENTED</i> (item 2 = 4 or 5), <i>ask</i> ] What was the landlord's share of the crop from this field?	<b>PERCENT</b> 1304
5.	[ <i>If field is RENTED</i> (item 2 = 2, 3, 4, or 5), <i>ask</i> ] What was the total cost for all inputs provided by any landlord or contractor for the 2009 crop on the selected field? ( <i>Include</i> the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, and irrigation. <i>Exclude</i> real estate tax expenses and lime costs paid by the landowner.)	<b>TOTAL DOLLARS</b>
6.	What year did you (the operator listed on the label) start operating this field?	<b>YEAR</b> 1307

		MM DD YY
		1308
7.	On what date was this field planted?	
	a. When planted, was this wheat field planted with the intention of (Include wheat planted for commercial seed contract under other uses.).1 Dual purpose (grain and grazing)? 2 Harvesting for grain only? 3 Grazing only? 4 Cover crop? 5 Other uses [Specify:]	<b>CODE</b> 1309
		UNIT CODE
	UNITS PER ACRE	1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHELS
		311
8.	What was the seeding rate per acre the first time this field was planted?	
		ACRES
9.	How many acres in this field had to be replanted to winter wheat?	1318
0.	(Acres replanted = Number of acres x Number of times replanted)	
	1 Purchased?	CODE
10.	Was the source of the winter wheat seed2 Homegrown or traded?3 Both?	1319
	a. [If item 10 = 2 or 3, ask]	PERCENT
	How much of the winter wheat seed planted in this field was grown ( <i>or received in trade</i> ) by this operation?	1320
		DOLLARS & CENTS PER BUSHEL
		1321
	(i) What was the cost per bushel for cleaning and treating this seed?	•
		UNIT CODE
11	[ <i>If any seed purchased</i> (item 10 = 1 or 3), <i>ask</i> ] DOLLARS & CENTS	
±±.		23 = 50 LB BAG 1430
	What was the total cost per unit (including both your and the landlord's share)       1429         of purchased seed for this field? (Include cost of seed treatment.)	1430

12.		l you plant a NON Genetically- ch as Clearfield) seed variety o	Modified (GM) herbicide resistant wheat	0005
	(Su	cil as cleanieiu) seeu vanety o		CODE
				1403
	a.	for 2009 (planted in Fall 2008)?	γES = 1	
				1402
	b.	for 2008 (planted in Fall 2007)?	?YES = 1	
	c.	[If item 12a or 12b is YES, ask]2 3 4Did you choose the NON 	Increase yields through improved pest (weed) control? Decrease herbicide costs? Decrease machinery costs? Improve ability to use or ease of using reduced tillage or no-till system? Improve ability to use or ease of rotating crops? Save management time or labor or improve ease of management? Adopt more environmentally friendly practices?	<b>CODE</b> 1317
		8	For some other reason? [Specify:]	
		_		CODES
13.	see the	ed becomes available, how like	e that the total cost of the seed (including technology fee)	<ol> <li>Very likely</li> <li>Somewhat likely</li> <li>Uncertain</li> <li>Somewhat unlikely</li> <li>Very unlikely</li> </ol>
	a.	10 percent seed cost increase.		1322
	b.	20 percent seed cost increase.		1323
	C.	30 percent seed cost increase.		1324
	d.	seed cost does not increase		1325

		CODE
		1343
14. Has harvest of this field been completed?	YES = 1	

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

How many acres in the winter wheat field were (or will be)	ACRES	1 What yield per acre did you (or do you expect to) get for wheat UNITS PER ACRE	2 UNIT CODE 1 POUNDS 2 CWT 3 TONS 4 BUSHELS CODE	3 What was the protein content per bushel of wheat PERCENT
a. harvested for grain?	1346	1347 	1348	1345
b. harvested for hay, silage or green chop?	1349	1350 	TONS	
c. harvested for commercial seed contract?	1431		1433	
d. abandoned?	1351			
e. used for some other purpose?	1439			

6

			CODE
16.		is straw harvested from this field?	1354
		YES - [Enter code 1 and continue] NO - [Go to item 18]	
			ACRES
			1355
17.	Ho	w many acres of wheat straw were harvested from this winter wheat field?	·
			TOTAL TONS
			1356
	a.	How many <b>tons</b> of wheat <b>straw</b> were harvested from these winter wheat ( <i>item 17</i> ) acres?	
		$\frac{1}{\text{Tons per Acres}} \times \frac{1}{\text{Acres}} = \frac{1}{\text{Total Tons}}  \text{OR}  \frac{1}{\text{Bales}} \times \frac{1}{1} \times \frac{1}$	
		Tons per Acre Acres Total Tons Bales Lbs per Bale Lbs per Ton Total Tons	
		PERCENTOR	TONS
	b.	Of the total wheat straw harvested from this winter wheat field <b>PERCENT OR</b>	<b>TONS</b> 1358
	b.		
	b.	Of the total wheat straw harvested from this winter wheat field	
		Of the total wheat straw harvested from this winter wheat field ( <i>item 17a</i> ), what was the landlord's share of the wheat straw?	1358
	b. c.	Of the total wheat straw harvested from this winter wheat field	1358 TOTAL DOLLARS 1359
		Of the total wheat straw harvested from this winter wheat field ( <i>item 17a</i> ), what was the landlord's share of the wheat straw?	1358 TOTAL DOLLARS 1359
		Of the total wheat straw harvested from this winter wheat field ( <i>item 17a</i> ), what was the landlord's share of the wheat straw?	1358 TOTAL DOLLARS 1359
	C.	Of the total wheat straw harvested from this winter wheat field ( <i>item 17a</i> ), what was the landlord's share of the wheat straw?	1358 TOTAL DOLLARS 1359 DOLLARS & CENTS PER TON 1360

18.				
_0.		any investock graze this wheat field during the 2009         YES - [Enter code 1 and continue]	Go to item 20]	1400
19.	<b>dur</b> graz	at type of livestock grazed this wheat field ring the 2009 crop year? (Include livestock ring before wheat harvest and livestock "grazing-out" field instead of harvesting wheat.).	1 Cattle 2 Sheep 3 Other [ <i>Specify:</i> ]	<b>CODE</b> 1361
				HEAD
	a.	About how many <b>head</b> of livestock ( <i>item 19</i> ) grazed	d this wheat field?	1362
				DAYS
	b.	How many <b>days</b> did this livestock graze on this who	eat field?	1363
				CODE
	C.	Was this wheat field "grazed-out" instead of harves	ted for grain? YES = 1	1344
	d.	Was payment received from others for livestock gra	azing on this field?	
			- [Go to item 20]	1364
				TOTAL DOLLARS
				1365
		(i) What is the total dollar amount received? (Inclu	de landlord's share.)	

18. Did any livestock graze this wheat field during the 2009 crop year?

CODE

	CROP CODE LIST for item 20 – 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			
		20	Potatoes	31	Sweet Potatoes		during this period		

## 20. 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					3 Was this field no-tilled? 1/	4 Was this home- grown seed?	
SEASON AND YEAR	CROP NAMES	CROP CODE 1	CROP CODE 2	YES = 1	YES = 1	YES = 1	
FALL of 2008?	Winter Wheat						
SPRING/SUMMER of 2008?		1369	1326	1370	1371	1333	
FALL of 2007?		1372	1327	1373	1374	1334	
SPRING/SUMMER of 2007?		1375	1328	1376	1377	1335	
FALL of 2006?		1378	1329	1379	1380	1336	
SPRING/SUMMER of 2006?		1381	1330	1382	1383	1337	
FALL of 2005?		1366	1331	1367	1368	1338	
SPRING/SUMMER of 2005?		1340	1332	1341	1342	1339	

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

CODE

			YEAR
(i) What year was the cover crop planted?			1466
(ii) In what season was the cover crop planted?	1 Spring/Summer 2 Fall	]	<b>CODE</b> 1467
			DOLLARS & CENTS PER ACRE
<ul><li>(iii) Was the seed for the cover crop purchased?</li><li>If yes, what was the seed cost per acre for the cover cro</li></ul>	1468 ·		

# 21. In 2009, did your land-use practices for this field include any of the following---

1	2	3	4
LAND-USE PRACTICE	Was this practice used? YES = 1	What year was this practice first used?	<ul> <li>Was (or will there be) an incentive or cost-share received from:</li> <li>1 Environmental Quality Incentives Program (EQIP)?</li> <li>2 Conservation Security Program (CSP)?</li> <li>3 Conservation Reserve Program (CRP)?</li> <li>4 Any other Federal, State, Local or non-government source?</li> </ul>
	1421	YEAR	CODE
a. Structures for soil erosion control?			
(i) Terraces	1420	1441	1451
(ii) Grade stabilization structures	1422	1442	1452
b. Structures for storm water runoff control/handling?	1423		
(i) Grassed waterways	. 1438	1443	1453
(ii) Structures for water control basins	1424	1444	1454
c. Filter strips or other conservation buffers?	. 1425		
(i) Filter strips	1426	1445	1455
(ii) Field borders	1427	1446	1456
(iii) Riparian buffers ( <i>i.e., grass buffers</i> )	. 1428	1447	1457
d. Other Practices?	1435		
(i) Contour farming and strip cropping	1434	1448	1458
(ii) Other Practices [Specify:]	1436	1450	1460

OFFICE USE

				CODE
	las the Natural Resource Conserv art of this field as "Highlv Erodibl	ation Service (NRCS) classified any e"?	YES = 1	1404
23. <b>H</b>	lave you been notified by NRCS th	nat this field contains a wetland?	YES = 1	1405
n	a 2009, did you receive technical a naintaining, or using conservation include grassed waterways and filter strips or	YES = 1	1406	
O S ai C	this field included in an existing r the landlord have received (or ex tewardship payments, or incentiv nd filter strips or riparian buffers, or drain consider payments that are part of this co nticipated for future years 1	YES = 1	1407	
	[If item 25 is YES, ask item 25a; else go to item 25b.]			
a	Have you received (or will you receive) cost sharing or incentive	<ol> <li>Environmental Quality Incentives Program (EQIP)</li> <li>Conservation Security Program (CSP)</li> <li>Conservation Reserve Program (CRP)</li> </ol>		1418
b	. Was this field included in a conservation program application that was rejected from-	<ol> <li>Environmental Quality Incentives Program (EQIP)</li> <li>Conservation Security Program (CSP)</li> <li>Conservation Reserve Program (CRP)</li> <li>Other Federal State Local or pop-government source in the second seco</li></ol>		1419

26. During 2009, did any written plan of the following types cover this field----

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

	1	2	3	4
	WRITTEN PLAN TYPE	Was this type of written plan used?	What year was this plan implemented?	For any practice that is part of this plan, was (or will there be) an incentive or cost-share payment received from:
				<ol> <li>Environmental Quality Incentives Program (EQIP)?</li> <li>Conservation Security Program (CSP)?</li> <li>Conservation Reserve Program (CRP)?</li> <li>Any other Federal, State, Local or non-government source?</li> </ol>
		YES = 1	YEAR	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.	[If i	tem 26a, b, c, d, or e is YES, ask]				
	to	ve you ever paid any technical service develop or write any of these plans for re reimbursed by the Natural Resource	which you or the landowner	Ver		<b>CODE</b> 1352
	a.	[If YES, ask]		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
		What was the reimbursement amount for plans for this field? ( <i>Include</i> landlord's/contra ( <i>Exclude</i> cost of construction or materials)		1353 		1384
28.		the winter wheat in this field	02			CODE
		vered by Federal Crop Insurance in 200				1385
		YES – [Enter code 1 and continue]	<b>NO</b> – [Go to item 29]			
	a.	Which coverage did you obtain?	<ol> <li>Basic catastrophic insurance (Fed</li> <li>Buy-up above basic federal CAT le</li> <li>Revenue insurance</li> <li>Organic plan insurance</li> <li>Other Federal Crop insurance</li> </ol>			<b>CODE</b> 1386
		(i) [If itom $a = 2$ and $1$				PERCENT
		<ul><li>(i) [<i>If item a = 3, ask</i>]</li><li>What was the level of revenue cover</li></ul>	age you obtained for this field?			1389
		What was the level of revenue cover		<u></u>		YEAR
	b.	In what year did you ( <i>the operator listed on</i> in the Federal crop insurance program?.				1387
						BUSHELS PER ACRE
	C.	What is the 2009 Approved APH (actual p	roduction history) yield for this field?			1388
	+		_	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	d.	What was the premium paid for Federal of for this field in 2009? ( <i>Exclude</i> any sign-up for the sign-up for the sign-up for the sign-up for the sign of the sign o		1390 		1391
					,	CODE
	e.	Did you (or will you) collect an indemnity	payment on this field?	YES		1392
29.		s the winter wheat in this field covered				CODE
	-	vate crop insurance in 2009 (hail, wind,				1393
		YES – [Enter code 1 and continue]	<b>NO</b> – [Go to item 30]			
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	a.	What was the premium paid for private cu for this field in 2009? ( <i>Exclude</i> any sign-up for		1395 •	1	1396
					I	YEAR
	b.	In what year did you ( <i>the operator listed</i> oprivate crop insurance for this field?			[	1397
					I	CODE
	C.	Did you ( <i>or will you</i> ) collect an indemnity for private crop insurance?		YES		1394
						DOLLARS & CENTS PER BUSHEL
30.		hat was the average price received for t Id by this operation for the 2009 crop ye				1398 

С

# NUTRIENT or FERTILIZER APPLICATIONS----SELECTED FIELD

								CODE	EDIT TABLE	
1.					pplied to this fi			0202	0201	
2.	[If COMMERCIAL nutrient or fertilizer applied, continue; else go to item 7.]								NUMBER	
					r applications				0203	
	for the 200	9 crop? (In	<b>clude</b> applica	tions made by	airplanes and custo	om applicato	ors)			
4.	Now I need	to record	informatio	on for each	application.					
 		C	HECK	LIST						
√	INI	CLUDE	<b>v</b>	/	EXCLUDE	ļ				
	Custom appl			- Micronutrie						
	or fertilizers							T-TYPE	TABLE	
İ 🗆	Nutrients or	fertilizers		Unprocesse	ed manure	į				
	applied in the and those ap	e fall of 2008		Nutrients	or fertilizers appli	l he				
	if this field wa		.008		crops in this field			2	001	
	Commonie	v proposed				_ <u> </u>	Lino	2 Office Use	<b>001</b>	
	Commerciall manure or co			Lime and g	ypsum/landplaste	r I	Line 99	Lines in Tab		
<u> </u>										
					1 Duradaast suu		PLICATION CODE			
					1 Broadcast, gro 2 Broadcast, gro	und with inc	incorporation 6 Chisel/Injected or knifed in			
					3 Broadcast, by a 4 In seed furrow	aircraft	7 Banded in or over row 8 Foliar or directed sprav			
			2		3	4	5	6	7	
			-		3	4	5	0	1	
			LS USED		What	[Enter	When was	S How was	, How many	
						[Enter materia	When was this applied	S How was		
L		MATERIA ter percentage	ALS USED		What quantity was applied	[Enter materia code.]	When was this applied	S How was this applied?	How many acres were treated	
L	pounds	MATERIA ter percentage s of plant nutrie	ALS USED analysis or a ents applied p	er acre.]	What quantity was	[Enter materia code.] 1 Pounds	When was this applied 1 In the fall before seedin	B How was this applied?	How many acres were treated in this	
L I N	pounds	MATERIA ter percentage s of plant nutrie w Common Ne	ALS USED analysis or a ents applied p	er acre.]	What quantity was applied per acre? [Leave this column	[Enter materia code.]	When was this applied 1 In the fall before seedin	B How was this applied? g [Refer to	How many acres were treated	
L I N E	pounds	MATERIA ter percentage s of plant nutrie w Common Ne	ALS USED e analysis or a ents applied p utrients or Fer	er acre.]	What quantity was applied per acre? [Leave this column blank	[Enter materia code.] 1 Pounds	When was this applied 1 In the fall before seedin 2 In the spring before seedin	B How was this applied? g [Refer to code	How many acres were treated in this	
	pounds	MATERIA ter percentage s of plant nutrie w Common Ne	ALS USED e analysis or a ents applied p utrients or Fer	er acre.]	What quantity was applied per acre? [Leave this column blank if actual nutrients	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding	B How was this applied? g [Refer to	How many acres were treated in this	
	pounds [Sho	MATERIA ter percentage s of plant nutrie w Common Nu in Respond	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K2O	tilizers	What quantity was applied per acre? [Leave this column blank	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding	B How was this applied? g [Refer to code	How many acres were treated in this application?	
	Isho	MATERIA ter percentage s of plant nutrie w Common Nu in Respond Paosphate	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K20 Potash	tilizers S Sulfur	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 5 4 After seeding	B How was this applied? g [Refer to code list above.]	How many acres were treated in this application? ACRES	
	Isho Nitrogen 0205	MATERIA ter percentage s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K20 Potash 0207	tilizers S Sulfur 0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210	S How was this applied? g [Refer to code list above.] 0211	How many acres were treated in this application? ACRES	
E	Isho	MATERIA ter percentage s of plant nutrie w Common Nu in Respond Paosphate	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K20 Potash	tilizers S Sulfur	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 5 4 After seeding	B How was this applied? g [Refer to code list above.]	How many acres were treated in this application? ACRES	
E 01	Isho Nitrogen 0205	MATERIA ter percentage s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K20 Potash 0207	tilizers S Sulfur 0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210	S How was this applied? g [Refer to code list above.] 0211	How many acres were treated in this application? ACRES	
E 01 02	Nitrogen	MATERIA ter percentage s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K20 Potash 0207 0207	tilizers S Sulfur 0214 0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 0208	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients 0209 0209	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210 0210	S How was this applied? g [Refer to code list above.] 0211 0211	How many acres were treated in this application? ACRES 0212 0212 0212	
E 01 02 03 04	Nitrogen 0205 0205	MATERIA ter percentages s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K2O Potash 0207 0207	s Sulfur 0214 0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 0208 0208	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients 0209 0209	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210 0210 0210	S How was this applied? g [Refer to code list above.] 0211 0211 0211	How many acres were treated in this application? 0212 0212 0212 0212 0212	
E 01 02 03	pounds           [Sho           N           Nitrogen           0205           0205           0205           0205	MATERIA ter percentages s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206 0206 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K2O Potash 0207 0207 0207	S           Sulfur           0214           0214           0214           0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 0208 0208 0208	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients 0209 0209 0209	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210 0210 0210 0210 0210	Solution How was this applied? g [Refer to code list above.] 0211 0211 0211 0211 0211 0211	How many acres were treated in this application? ACRES 0212 0212 0212 0212 0212	
E 01 02 03 04 05 06	pounds           [Sho           N           Nitrogen           0205           0205           0205           0205           0205	MATERIA ter percentages s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206 0206 0206 0206	ALS USED e analysis or a ents applied p utrients or Fer ent Booklet.] K2O Potash 0207 0207 0207 0207	er acre.] tilizers S Sulfur 0214 0214 0214 0214 0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 0208 0208 0208 0208	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients 0209 0209 0209 0209	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210 0210 0210 0210 0210 0210	Solution How was this applied? g [Refer to code list above.] 0211 0211 0211 0211 0211 0211 0211 0211 0211	How many acres were treated in this application? ACRES 0212 0212 0212 0212	
E 01 02 03 04 05	pounds           [Sho           N           Nitrogen           0205           0205           0205           0205           0205           0205           0205           0205           0205           0205	MATERIA ter percentages s of plant nutrie w Common Nu in Respond P2O5 Phosphate 0206 0206 0206 0206 0206	ALS USED analysis or a ents applied p utrients or Ferent Booklet.] K2O Potash 0207 0207 0207 0207 0207 0207 0207	S         Sulfur         0214         0214         0214         0214         0214         0214         0214         0214         0214         0214	What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.] 0208 0208 0208 0208 0208	[Enter materia code.] 1 Pounds 12 Gallons 19 Pounds of actua nutrients 0209 0209 0209 0209 0209	When was this applied 1 In the fall before seedin 2 In the spring before seedin 3 At seeding 4 After seeding 0210 0210 0210 0210 0210 0210 0210 021	Solution How was this applied? g [Refer to code list above.] 0211 0211 0211 0211 0211 0211 0211 0211 0211 0211 0211 0211	How many acres were treated in this application? ACRES 0212 0212 0212 0212 0212	

T – TYPE	TABLE	LINE
0	000	00

5.	Were any nutrients or fertilizers applied by custom applicators?		
	YES - [Continue]         NO - [Go to item 6]		
	a. Are you able to report the cost of nutrient or fertilizer materials		OFFICE USE
	and custom application separately?           YES - [Continue]         NO - [Go to item 6]		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? ( <i>Include</i> landlord and contractor costs. <i>Include</i> costs for sulfur and micronutrients. <b>DOLLARS &amp; CENTS</b> <b>PER ACRE</b>	OR	TOTAL DOLLARS
	<b>Exclude</b> custom application of lime, gypsum, purchased manure & purchased compost.) [If material and application costs can't be separated, <b>exclude</b> them here and record the		0220
	total in item 6.]		
~			
6.	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 materials PER ACRE	OR	TOTAL DOLLARS
	can be separated from application costs , <b>include</b> the cost of materials ONLY; otherwise, include both the material and application costs.] <b>Include</b> materials applied to this field		0222
	if it was fallow in 2008. Exclude lime, gypsum, purchased manure and purchased compost.)		
			CODE
7.	Was gypsum applied to this field for the 2009 winter wheat crop?	c _ 1	0218
1.		5 = I	
		г	BUSHELS PER ACRE
8.	What was your yield goal at planting for this field?		0217
-		L	
9.			
	in 2008 or 2009 for the 2009 crop?		
	YES [Continue]       NO [Go to item 14]		
		г	CODE
10.	Was a soil test for phosphorus performed on this winter wheat field in 2008 or 2009 for the 2009 crop?		0225
	a. [If phosphorus test done, ask]		POUNDS PER ACRE
			0226
	How many pounds of phosphorus (per acre) were recommended (by the phosphorus test)?		
		r	CODE
11.	Was a soil test for nitrogen performed on this winter wheat field in 2008 or 2009 for the 2009 crop?		0227
	a. [If nitrogen test done, ask]	L	POUNDS PER ACRE
			0228
	How many pounds of nitrogen (per acre) were recommended (by the nitrogen test)?	· · ·	
			CODE
12.	Was a plant tissue test or leaf analysis for nutrient deficiency performed on this field for the 2009 crop?	c _ 1	0229
		3 - I	
	DOLLARS & CENTS PER ACRE		TOTAL DOLLARS
13.	How much was spent for these soil and plant tissue tests	]	0231
	on this field? (Include operator, landlord, and contractor costs.).		
	1 Soil/plant tissue test provided free of charge		
	a. If tests were done at no cost, explain by dealer, crop consultant, or extension service		CODE

2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 6 - 41- -~

0232

. . . .

14. [ENUMERATOR ACTION: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 15, 16 and 17. If NO nitrogen applied, go to item 18.]

15.	5. Was the amount of nitrogen you decided to apply to this field based on						
	a.	. Results of a soil or plant tissue test?					
	b.	Crop consultant recommendation?					
	C.	Fertilizer dealer recommendation?					
	d.	Extension Service recommendation?			0236		
	e.	Cost of nitrogen and/or expected comr	nodity price?	YES = 1	0237		
	f.	Contractor recommendation?			0238		
	g.	Routine practice (operator's own deter	mination based on past		0239		
		experience, yield goal, etc.)?	·····	YES = 1			
16.	Did	you purchase any commercial nitro	gen fertilizer applied to this field		0222	CODE	
		der contract or otherwise pre-purcha ce prior to planting?	se the fertilizer at a pre-determined		0223		
	a.	[If YES, ask]				CODE	
		What month prior to planting for the 20 fertilizer used on this field? [Enter code	09 crop did you contract for the		0224		
			1 Nitrification inhibitors (such as N-Serve)				
17	Wh	ich of the following products	<ul><li>2 Urease inhibitors (<i>such as Agrotain</i>)</li><li>3 Chemical-coated fertilizers (<i>such as sulfur-coated</i>)</li></ul>			CODE	
±7.	did	you use to slow the breakdown nitrogen on this field?	urea and polymer-coated urea) 4 Other inhibitors		0241		
	011		L= Martin I			CODE	
					0242		
18.				YES = 1			
	[ <i>If</i> r	no lime applied, go to item 19; else cont	inue.]			YEARS	
	a.	On average, how many years are there	e between applications of <b>lime</b> to this field?		0243		
					TONS	S PER ACRE	
	b.	How many tons of <b>lime</b> were applied p	er acre the last time it was applied to this field?		0244		
						CODE	
	C.	Was lime applied to this field in 2008 o	r 2009 for the 2009 crop?		0240		
			-				
	d.	[If field is rented (Section B, item 2 = 2	, 3, 4, or 5), <i>ask</i> ]		Р	ERCENT	
		Considering the last time it was applied and its application was paid by the land	d, what percent of the total cost of lime dlord(s)?		0245		

19.	ma		(from own farm, from a neighbor's farm, etc.) or other organic oplied to this field for the 2009 winter wheat crop? (Exclude	CODE	_
	_	YES - [Enter code 1 and con	tinue]	0246	
				ACRES	
	0	How many agree in this field	was manure applied to?	0247	
	a.	How many acres in this held	was manure applied to?	·	
			1 TONS CODE UNITS PER ACRE OR	TOTAL UNITS	_
	b.	What was the amount of ma applied to this field?		0250	
				MILES	-
				0251	٦
	c.	What is the distance betwee	n the manure storage/production location and this field?	·	
			1 TONS CODE	TOTAL UNITS	
	d.	What was the capacity of th (or other vehicle) used to ha		0253	
			ul manure to this field? 3 BUSHELS	·	_
	e.	Of the total manure applied			
		crop, what was the percent	of manure applied	PERCENT	٦
		(i) in the fall before planting	J?+	0254	
		(ii) in the opting before place	ting?+	0255	
		(II) In the spring before plar	ung ? +	0256	-
		(iii) after planting?	+		
				100%	
			1 Lagoon liquid?	CODE	_
	f.	Was the manure	2 Slurry liquid?	0257	
			<u>3</u> Semi-drv or drv2		
			1 Broadcast or sprayed <i>without</i> incorporation?		
			2 Broadcast or sprayed with incorporation?	CODE	٦
	g.	Was the manure	3 Injected/knifed in? <u>4 Spraved using irrigation systems</u>	0258	
			1 Beef cattle? 2 Dairy cattle?	CODE	-
	h.	Was the major source of the manure from	3 Hogs?	0259	
		L			
			5 Poultry? 6 Equine?		
			7 Biosolids ( <i>municipal sludge</i> )? 8 Food waste?		
			9 Other? [Specify:]		

i.	Was the manure	<ol> <li>Produced on this operation?</li> <li>Purchased?</li> <li>Obtained at no cost off this operation?</li> <li>Obtained with compensation? (Operator received payment for accenting the manure).</li> </ol>		<b>CODE</b> 0260
		t of the purchased manure applied y payment made for transportation costs.)	DOLLARS & CENTS PER ACRE OR	<b>TOTAL DOLLARS</b> 0285
	<ul><li>(ii) Did you hire someone</li><li>(1) [<i>If YES, ask</i>]</li></ul>	to custom apply the manure?		<b>CODE</b>
	to this field? [Do no	cost paid to have manure custom applied treport custom application cost if it was included with cost.]	PER ACRE         OR           0287         .           .	0288
j.		nis field, was any tested for nutrient content pric		0261
k.		commercial nitrogen fertilizer on this field reduc		0262
		ou reduce the commercial nitrogen fertilizer field?		<b>PERCENT</b> 0263
I.		heat harvest date for this field due to	YES = 1	CODE 0280

		CODE
20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?	YES = 1	0264
a. [If item 20 is YES, ask]		
What basis was used to determine these manure application rate restrictions		CODE
(i) Nitrogen requirement of the crop?		0265
(ii) Phosphorus requirement of the crop?		0266

Was compost applied to t	his field for the 2009 winter wheat crop?		CODE			
<b>YES</b> - [Enter code 1 and	-		0267			
			ACRES			
a. To how many acres in t	his field was the compost applied?		0268			
	CODE	UNITS PER ACRE	OR TOTAL UNIT			
b. What was the amount of		AND 0270	0271			
applied to this field?		·				
			[Enter up to			
			source code			
	1 Beef cattle?		FIRST			
	2 Dairy cattle? 3 Hogs?		0281			
	4 Sheep?		SECOND			
c. Were the major sources	5 Poultry?		0282			
of the compost from	6 Equine? 7 Biosolids ( <i>municipal sludge</i> )?		UZOZ			
	8 Food waste?		THIRD			
	9 Crop? [Specify:	]	0283			
	10 Other? [ <i>Specify</i> : ]					
d. Was the compost	<ol> <li>Produced on this operation?</li> <li>Purchased?</li> <li>Obtained at no cost off this oper</li> </ol>	ration?	CODE			
	4 Obtained with compensation? (		0272			
	received nevment for accenting		••••			
(i) [ <i>If item 21d = 2, ask</i>	]	DOLLARS & CENTS PER ACRE	OR TOTAL DOLLAR			
	cost of the purchased compost applied	0273	0274			
	e any payment made for transportation costs.)		0214			
			CODE			
			0275			
(II) Did you hire someo	(ii) Did you hire someone to custom apply the compost?					
(1) [If YES, ask]		<b>DOLLARS &amp; CENTS</b>				
	otal cost paid to have compost	PER ACRE	OR TOTAL DOLLAR			
	to this field? [Do not report custom	0276	0277			
application cost if it	was included with the compost cost.]	·····				
			MILES			
(iii) [ <i>If item 21d = 1, ask</i>	j e between the compost storage/production loca		0299			

**BIOCONTROL or PESTICIDE APPLICATIONS---**SELECTED FIELD

Now I have some questions about all the biocontrols or pesticides used on this field for the 2009 winter wheat crop, including both custom applications and applications made by this operation.

								F	CODE	EDIT TABLE
	<ol> <li>Were any herbicides, insecticides, fungicides or other chemicals used on this winter wheat field for the 2009 crop?</li></ol>								0302	0301
		ations made in the ow). If no bioconi					l			
T - TYPE TABLE										
		ngicides, herbicides and other pesticides		Exclude		rtilizers reported ed treatments.			3	001
Include biologica	al and	botanical pesticide	s.		LINE 99				OFFICE USE	0319
		2		3	4	5		6 0	DR 7	8
CHEMICAL PRODUCT	L I N E	What products were applied to this field? [Show product codes from Respondent Booklet.]	pro bou liquio fo	s this oduct ight in d or dry orm? r 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	was pe	/ much applied r acre per cation?	What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
NAME		0205			0306	4 AFTER planting 0307	0308		0309	0310
	01	0305						•	·	
	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 biocontrols or pesticides not listed in Respondent Booklet, specify---]

LINE

D

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
- 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
- 9 Spot treatments

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

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

3.	Were any chemicals, biocontrols, or pesticides applied by custom applica	tors?				
	□ YES – [Continue]         □ NO – [Go to item 4]			OFFICE USE		
				0324		
	a. Are you able to report the cost of chemical product and custom application s	separately?				
	<b>YES</b> – [Continue] <b>NO</b> – [Go to item 4]					
	b. Excluding the cost of the chemical product, how much was spent	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS		
	for custom application of chemicals, biocontrols, and pesticides on this field? ( <i>Include</i> operator and <i>landlord</i> cost.)			0332		
4.	What was the TOTAL COST of all chemical products applied to this field? (Include operator, landlord, and contractor cost, defoliants, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators,	OR	TOTAL DOLLARS			
	and materials applied before planting and during 2008 fallow period. <b>Exclude</b> seed treatments.).	0334 ·		0335		
	<b>NOTE 1</b> : If respondent cannot report TOTAL COST, itemize cost for each product in op Table.	tional columns in Bio	conti	rol or Pesticide		
	<ul> <li>NOTE 2: If custom applied and the costs for materials can be separated from application costs, include the cost for Otherwise, report both the material and application costs in item 4.</li> </ul>					

## NOTES

# PEST MANAGEMENT PRACTICES----SELECTED FIELD

Ε

Ε

No	Now I have some questions about your pest management decisions and practices							
us	d on this field for the 2009 winter wheat crop.	T-TYPE	TABLE	LINE				
WE	EDS, INSECTS, and DISEASES.		0	000	00			
1.	[ENUMERATOR ACTION: Were PESTICIDE ap	· · ·						
	YES – [Continue]	<b>NO</b> – [Go to item 10]						
2.	Was weather data used to assist in determinin	a aither the peed or when	6	<b>COI</b> 800	)E			
۷.	to make pesticide applications?		-	800				
_			L		I			
3.	Were any biological pesticides such as Bt (Bac regulators, neem or other natural/biological ba	cillus thuringiensis), insect growth	6	801	]			
	to manage pests in this field?		-	501				
4.	Were pesticides with different mechanisms of for the primary purpose of keeping pests from			802				
	for the primary purpose of keeping pests from		123 - 1		]			
5.	[ENUMERATOR ACTION: Were HERBICIDE (pd	esticide product codes 3000-4999)						
		in Section D, item 1, column 2?]						
	YES – [Continue]	<b>NO</b> – [Go to item 8]						
			-		]			
6.	Were herbicides applied to this winter wheat fi	eld	-	803				
	BEFORE weeds emerged?		YES = 1		]			
	a. [If item 6 is YES, ask]	1 routine treatments of what weeds						
	Were the herbicides applied BEFORE	are usually present?	_					
	weeds emerged on this winter wheat	OR	08	804				
	field based primarily on	2 weed scouting from the previous year?						
			F		]			
7.	Were herbicides applied to this winter wheat fi AFTER weeds emerged?	eld		805				
					]			
	a. [If item 7 is YES, ask]	1 routine treatments of what <b>weeds</b> are usually present?						
	Were the herbicides applied AFTER weeds emerged on this winter wheat	OR	5		]			
	field based primarily on	2 weed scouting from the current year?		806				
			I					
8.	[ENUMERATOR ACTION: Were INSECTICIDE (							
		in Section D, item 1, column 2?]						
	YES – [Continue]	<b>NO</b> – [Go to item 10 ]						
		[]						
		1 routine treatments of what <b>insects</b> are usually present?						
9.	Were the insecticides applied to this winter wheat field	OR		007	]			
	based primarily on	2 scouting for insect infestation?		807				
					]			

10. In 2009, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?	activities [E 2 By conducting routine task 3 This field was	ly going to the field specific inter code 1 and go to item g general observations whil s [Enter code 2 and go to it s not scouted. 3 and go to item 18.]	11.]   CODE     e performing   0808				
11. Was an established scouting process (syste or were insect traps used in this field?	matic samplir	ng, recording counts, e					
12. Was scouting for pests done in this field du	e to						
a. a pest advisory warning?							
b. a pest development model?			YES = 1				
1		2	3				
1		[ <i>If YES, ask]</i> What was the infestation level for	3 [ <i>If column 1 is YES, ask]</i> Who did the majority of the scouting for [column 1] <b>?</b>				
1		[ <i>lf YES, ask]</i> What was the	[ <i>If column 1 is YES, ask</i> ] Who did the majority of the scouting				
1 13. Was this winter wheat field scouted for	YES = 1	[ <i>If YES</i> , ask] What was the infestation level for [column 1] ? 1 Worse than normal 2 Normal	[If column 1 is YES, ask] Who did the majority of the scouting for [column 1] ? 1 Operator, partner or family memt 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant				
13. Was this winter wheat field scouted for	-	[ <i>If YES</i> , ask] What was the infestation level for [column 1] ? 1 Worse than normal 2 Normal 3 Less than normal CODE	<ul> <li>[If column 1 is YES, ask] Who did the majority of the scouting for [column 1] ?</li> <li>1 Operator, partner or family memt</li> <li>2 An employee</li> <li>3 Farm supply or chemical dealer</li> <li>4 Independent crop consultant or commercial scout</li> </ul>				
.3. Was this winter wheat field scouted for a. weeds?	0812	[ <i>If YES, ask]</i> What was the infestation level for [ <i>column 1</i> ] ? 1 Worse than normal 2 Normal 3 Less than normal CODE 0813	[If column 1 is YES, ask] Who did the majority of the scouting for [column 1] ? 1 Operator, partner or family memt 2 An employee 3 Farm supply or chemical dealer 4 Independent crop consultant or commercial scout CODE				

else go to item 15.]	PER ACRE	OR	TOTAL DOLLARS
14. How much was charged for the scouting services for this field?	0821		0822
			OFFICE USE
a. [If scouting performed at no cost, explain:	]		0333
			CODE
15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?		(ES = 1	0823
16. Were scouting data compared to published information on infestation the to determine when to take measures to manage pests in this field?		YES = 1	0824
17. Did you use field mapping of previous weed problems to assist you in n weed management decisions?		/ES = 1	0825

20	•
1:	5

18.		you do any of the following other types of pest management for the spenning or reducing the spread of pests in this field? [Enter code "1" for a					
				CODE			
	a.	Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for this field?	YES =	0841 <b>1</b>			
				0842			
	b.	Plow down crop residue (using conventional tillage)?	YES =	1			
				0843			
	C.	Remove/burn down crop residue?	· · · · · · · · · · YES =	1			
	ام	Detete evens in this field during the next 2 years		0844			
	d.	Rotate crops in this field during the past 3 years?	YES =				
	e.	Maintain ground covers, mulches, or other physical barriers?		0845			
	с.		TES =				
	f.	Choose crop variety because of specific resistance to a certain pest?	VES =	0846			
			120-	0847			
	g.	Use no-till or minimum till?	YES =				
	5		-	0848			
	h.	Plan planting locations to avoid cross infestation of pests?	YES =				
				0849			
	i.	Adjust planting or harvesting dates?	YES =	1			
	i	Chop, spray, mow, plow, or burn field edges, lanes, ditches,		0850			
	J.	roadwavs. or fence lines?	YES =				
	ι.						
	k.	Clean equipment and field implements after completing field work to reduce the spread of pests?	YES =	0851			
				0852			
	Ι.	Adjust row spacing, plant density or row directions?					
	m.	Have the seed used in this field treated for insect or disease control after you purchased the seed?	YES =	0854			
				0855			
	n.	Maintain a beneficial insect or vertebrate habitat?	YES =				
	0.	Maintain buffer strips or border rows to isolate organic winter wheat from non-organic crops or land, or did you take a buffer harvest?	YES =	0856			
			TE3 -	0857			
	p.	Use a flamer to kill weeds?	YES =				
	1.			-			
				CODE			
19.	We	re any beneficial organisms (insects, nematodes, fungi) applied		0853			
		released in this field to manage pests?	YES =	1			
20.		re floral lures, attractants, repellants, pheromone traps or other logical pest controls used on this field?	YES =	0858			
	-						
	a.	[If item 19 or item 20 is YES, ask]					
		••	DOLLARS & CENTS PER ACRE OF	R TOTAL DOLLARS			
		for all biological pest controls for this field? (Include operator, landlord, and contractor shares. Include cost for beneficial	PER ACRE OF	0860			
		organisms (insects, nematodes, and fungi). <b>Exclude</b> biological pesticides.)	·	0000			

			CODE
21 Was a trai	n oron (ovoluding follow) grown to holn manage ince	ate in this field?	0863
	p crop (excluding fallow) grown to help manage inse		
~~			
	field left fallow in the spring/summer of 2008 to help Id?		0864
23 Were wate	er management practices such as irrigation schedu	ling controlled	
	or treatment of retention water used on this field to		0861
or toxic p	roducing fungi and bacteria?	YES = 1	
	ection of beneficial organisms a factor in your pest		0862
for this fie	eld?	YES = 1	
PEST MANAG	EMENT INFORMATION		
-	t Management Information Sources Code List from Re	, ,	
Which out	tside sources of information on pest management   I for the 2009 winter wheat crop?	practices and products	
	ith the most influential in determining the pest manage	ment practices used	
	eration, enter codes for up to three sources.]		
PEST MA	ANAGEMENT INFORMATION SOURCES CODE LIST		[Enter up to 3
1 Cour	nty, Cooperative, or University Extension Advisor,	7	source codes.]
	ublications or Demonstrations		
	n Supply or Chemical Dealer		FIRST
	imercial Scouting Service		0826
	pendent Crop Consultant		
	Pest Control Advisor/Custom Applicator		SECOND
5 Othe	er Growers or Producers		0827
6 Prod	lucer Associations, Newsletters or Trade Magazines		
	tronic Information Services DTN, Internet, World Wide Web, etc.)		
	loyee Pest Advisor		THIRD
	-		0828
9 Othe	er –  Specify:		
9 Othe	Pr – [Specify:]		

		1
26. Other than pesticide applicator training, have you (the operator) attended any	0829	-
training session on pest identification and management since October 1, 2008?	YES = 1	

Completion Code for Pe	est Management Data
1 Incomplete/Refusal	0340

# FIELD OPERATIONS----SELECTED FIELD

26

# 1. Now I need to list all tractors used to produce winter wheat on the selected field.

#### CHECK LIST Include Exclude Tractors owned, rented, leased or borrowed operators

Tractors provided by custom

1	2	3	4	5	6
	What tractors were used on this field?         1       John Deere & Company         2       AGCO (Challenger, Massey-Ferguson, Caterpillar)         3       Ford New-Holland (Case)         4       Kubota         5       Other [Specify:]	What is the model year? (Example: 2004)	<ul> <li>Is this vehicle a?</li> <li>2 2-wheel drive tractor</li> <li>3 2-wheel drive tractor with front wheel assist</li> <li>4 -wheel drive tractor</li> <li>5 crawler or other tracked-tractor</li> <li>6 other tractor</li> </ul>	What is its PTO Horsepower?	Is it? 1 diesel 2 gasoline 3 LP gas 9 other
	CODE	YEAR	CODE	PTO HORSEPOWER	CODE
1	0110	0120	0121	0122	0123
2	0111	0124	0125	0126	0127
3	0112	0128	0129	0130	0131
4	0113	0132	0133	0134	0135
5	0114	0136	0137	0138	0139
6	0115	0140	0141	0142	0143
7	0116	0144	0145	0146	0147
8	0117	0148	0149	0150	0151
9	0118	0152	0153	0154	0155
10	0119	0156	0157	0158	0159

### 2. Was a self-propelled combine and/or swather used to harvest the winter wheat field?

YES – [Continue]

**NO** – [Go to item 2c]

		YEAR
a.	What is the model year of the self-propelled harvester(s) used to harvest winter wheat from this field? ( <i>Report the average year if more than one was used.</i> )	0830
		YEAR
b.	What is the model year of the self-propelled swather(s) used in preparing to harvest winter wheat from this field? ( <i>Report the average year if more than one was used</i> .)	0831
		CODE
C.	Did you use a defoliant in place of a swather in preparing to harvest the winter wheat from this field? YES = 1	0832

F

3. Including custom operations, I need to list field wo by machines on this field for the 2009 winter wheat	rk performed crop. Please	CHECK LIST
<ul> <li>begin with the first field operation after harvest of previous including operations for a cover crop established since the harvested [<i>if fallow during 2008, list operations starting</i>]</li> <li>list the operations in order through harvest and hauling of to storage or first point of sale; and</li> <li>maintain the order of tandem hook-ups.</li> <li>CODES FOR COLUMN 5         <ol> <li>You (<i>the Operator</i>)</li> <li>Partner</li> <li>Unpaid Worker</li> <li>Paid Part-time or Seasonal Worker</li> <li>Paid Full-time Worker</li> <li>Custom Applicator</li> </ol> </li> </ul>	ne previous crop with fall 2007];	Include all field work using machines for         Land Forming/Levee Building         Tillage         Preparing for Irrigation         Planting         Fertilizer & Pesticide applications         Harvesting & Hauling wheat and wheat straw to storage or first point of sale         Exclude         Lime & Gypsum/landplaster applications

2	3	4	5	[ IF CUSTOM (column 5 = code 6 ), skip columns 6-10 ]				
				6	7	8	9	10
S EQUENCE	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	What was the power source? [Record tractor line number from item 1.] OR 66 Animal Drawn 77 Pick up 99 Self-Propelled 1/	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.]
No.		CODE	CODE		CODE		ACRES	HOURS
0351		0352	0353	0354	0355	0356	0357	0359
0361		0362	0363	0364	0365	0366	0367	0369
0371		0372	0373	0374	0375	0376	0377	0379
0381		0382	0383	0384	0385	0386	0387	0389
0391		0392	0393	0394	0395	0396	0397	0399
0401		0402	0403	0404	0405	0406	0407	0409
0411		0412	0413	0414	0415	0416	0417	0419
0421		0422	0423	0424	0425	0426		0429
0431		0432	0433	0434	0435	0436	0437	0439
0441		0442	0443	0444	0445	0446		0449
0451		0452	0453	0454	0455	0456	0457	0459
0461		0462	0463	0464	0465	0466	0467	0469
0471		0472	0473	0474	0475	0476	0477	0479
0481		0482	0483	0484	0485	0483	0487	0489
0491		0492	0493	0494	0495	0496	0497 <b>.</b>	0499
0501		0502	0503	0504	0505	0506		0509
0511		0512	0513	0514	0515	0516		0519
0521		0522	0523	0524	0525	0526		0529

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

### OFFICE USE

## 4. Now I need some additional information about your labor.

Please report the paid and unpaid labor that worked on this field to produce the 2009 winter wheat crop.

(Exclude labor that was reported for field work performed by machines.)

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

5.		<b>/hat was the average hourly wage rate paid to part-time or seasonal hired workers?</b> Exclude custom and contract workers, payroll taxes and benefits.).	DOLLARS & CENTS PER HOUR
6.		<b>/hat was the average hourly wage rate paid to full-time hired workers?</b> Exclude custom and contract workers, payroll taxes and benefits.).	DOLLARS & CENTS PER HOUR 1118
7.	w	/as any contract labor used on this field? YES = 1	<b>CODE</b>
	a.	[If YES, ask]	DOLLARS & CENTS PER ACRE
		What was the average cost per acre for this contract labor?         (Include operator, landlord, and contractor costs.).	

8.	What percent of the total number of unpaid hours worked on this field was performed by	PERCENT
		1120
	off-farm wage rates, which are different for workers under 16 relative to those 16 and older.)	

9. Now I need some information on how much was spent for custom services used on this field for the 2009 winter wheat crop.

	1 CUSTOM SERVICE Which of the following services were performed for the 2009 winter wheat crop on this field?	and o how for this f wint	2 Including trator, landlord, contractor costs, much was spent r [column 1] on field for the 2009 ter wheat crop?
~	← [Check box for each service performed; refer to item 3 if necessary.]		PER ACRE
	a. Custom land preparation, shaping and/or leveling	1121	
	(Cost per Hour X Total Hours = Total Dollars ÷ Total Acres in the Field = Dollars & Cents per Acre)		·
	b. Custom cultivating	1122	·
		1123	
	c. Custom planting and/or reseeding	1124	·
	d. Custom harvesting	1124	·
	e. Custom hauling to storage or point of first sale	1126	
	(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & Cents per Acre)		·
	f. Harvesting and hauling from field to storage or point of first sale	1127	
	(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & Cents per Acre).		·
	g. Custom raking, baling, and hauling the straw from this field	1128	
	(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & Cents per Acre).		•
10.	<ul> <li>Did you hire any technical or consultant services to make recommendations (such as for nutrient, pest control, irrigation, or precision farming) for this field?</li> <li>YES – [Continue]</li> <li>NO – [Go to item 12]</li> </ul>		
	Which of the following services did you obtain?		
	a. Nutrient recommendations/management service?		1129
	b. Soil or tissue sample collection?		1130
	c. Pest control recommendations/management service?		1131
			1132
	d. Pest scouting?	/ES = 1	1122
	e. Irrigation management service ( <i>i.e. irrigation scheduling</i> )?	/ES = 1	1133
	f. Yield map or remote sensing map development/interpretation?		1134
	g. Other custom or technical service? [Specify:] Y	ES = 1	1135
11.	If YES to any of these services, what was the cost for all of these DOLLARS & CEN PER ACRE	TS OR	TOTAL DOLLARS
	<b>Services?</b> (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 1136		1137
	services if they were previously reported as part of the costs of materials and/or application.)		

				CODE
12.			onitor on the equipment used to harvest YES = 1	1138
	[ <i>lf</i> ]	YES, continue; else go to item 13]		
	a.	Was there (or will there be) a yield information from the vield monitor?	map produced from this harvest using YES = 1	1139
	b.	Did you use the yield monitor inform	nation to	
		(i) monitor crop moisture content	to determine need for crop drying? YES = 1	1140
		(ii) add/improve tile drainage?		1141
		(iii) add/improve irrigation equipme	ent/irrigation water application? YES = 1	1142
		(iv) conduct in-field experiments (e seed varieties, herbicides, pesticio	.g., compare fertilizer applications, les. etc)?YES = 1	1143
		(v) negotiate new crop leases?	YES = 1	1144
		(vi) document yields for crop insura program purposes?	ance, real estate tax, or farm YES = 1	1145
		(vii) accurately divide crop producti landlord crop shares?	on among partners and/or for YES = 1	1146
		(viii) other uses [specify:	] YES = 1	1147
13.			bal Positioning System) <b>device used to produce</b> nitrate levels, PH, soil type, etc.) <b>of this field? YES = 1</b>	1148
	a.	[If YES. ask]	1 soil tests from this field?	
		Was the information collected above based on	2 a machine that measured electrical conductivity of the soil in this field ( <i>e.g. Veris machine</i> )? 3 other? [ <i>Specify:</i> ]	. 1149
14.			provide an image or photograph ng the 2009 growing season?YES = 1	1151
15.	Wa	s a variable rate applicator used	on this field for	1152
	a.		YES = 1	
		(i) [ <i>If YES, ask</i> ]		[]
		Did vou use a variable rate apr		1153
			YES = 1	1154
			YES = 1	1155
			YES = 1	_1156
		.,	YES = 1	1157
		(5) manure annlications?	YES = 1	1158
	b.	seeding?		1159
	C.	pesticide applications?	YES = 1	
16	<b>W</b> a	s a quidance or parallel swathing	system (connected to GPS) used	1150

## NOTES

# IRRIGATION

32

#### ACRES

1160

# 1. How many acres in this field were irrigated for the 2009 winter wheat crop? [If none. ao to Section H].....

# 2. Now, I have some questions about irrigation systems and water used on this field for the 2009 winter wheat crop.

	$\downarrow$		UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) was this field? [Show System Type Codes in the F System Type Code for up to two systems coverin	SYSTEM TYPE CODE	1161	1175	
		INCHES PER ACRE	1162	1176	
b.	What was the total quantity of water app the entire growing season? ( <i>Include ALL</i> and off-farm sources.).	water used from both on-farm	OR TOTAL ACRE-FEET	1163	1177
	[If operator cannot provide item 2b, ask	(i) & (ii), else go to 2c]			
	(i) What is the <b>total</b> number of <b>hours</b> t apply water to this field during the w		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 irrigat system came from surface water source	PERCENT	1166	1180	
d.	What was the number of times this field winter wheat growing season using this pre-plant irrigation.)	NUMBER OF	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.	[ <i>If item 2a = code 1-9</i> (PRESSURE SYS What was the system operating pressur	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.	[ <i>If NO PUMP was used</i> (item 2e = 99), a What was the average flow rate?	GALLONS PER MINUTE	1173	1187	
k.	How many other acres on this operation this field's irrigation system during the 2 ( <i>Exclude this field.</i> ).	ACRES		1188	

# 3. What was the cost of the fuel or electricity used to irrigate this field?..... 1189 1190

G

	_
o	

		CODE
4.	Was any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.)	1191
	YES – [Enter code 1 and continue.]         NO – [Go to item 5.].	
		PERCENT
		1192
	a. What percent of the water used on this field was purchased?	1102
	DOLLARS & CENTS	
		TOTAL DOLLARS
	during the 2009 growing season? ( <i>Include</i> landlord and contractor 1193	1194
	costs and ditch maintenance costs for this field.)	
F	[If CIDUCAL TURES were used (item $2n - 10 \text{ or } 11$ ) solve 1	TOTAL DOLLARS
5.		1201
	What would be the total cost to replace all the siphon tubes used on this field?	
6.	[If POLY PIPE system was used (item 2a = 14) ask]	
0.	What was the total amount spent for poly pipe used on this field during the	TOTAL DOLLARS
	2009 growing season?	1202
	2009 growing season?	
7.	[If GATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
••		1203
	a. What was the average diameter of gated pipe used to irrigate this field?	1203
		FEET
	b. What was the total length of gated pipe used?	1204
8.	Were wells used to supply irrigation water for this field?	CODE
0.		1205
	YES – [Enter code 1 and continue]         NO – [Go to item 9]	
		NUMBER
		1206
	a. How many wells were used to irrigate this field?	
		INCHES
		1207
	b. What was the average diameter of the outer well casing?	
	c. What was the average pumping depth of these wells during the irrigation season?	FEET
	[Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the	1208
	water level caused by pumping during the irrigation season.].	
		CODE
		1209
	d. Did the well(s) have a water meter or other flow measurement device?	
	e. Were other fields irrigated using water pumped from well(s) that supplied	CODE
	water to the selected field?	1210
	<b>YES</b> – [Enter code 1 and continue] <b>NO</b> – [Go to item 9]	
		ACRES
	f. Excluding this field, how many other acres on this operation were irrigated	1211
	using the same well(s) during the 2009 growing season?	

.

5 there is no run-off

 ....

. ..

.

..

9.	•	al pipe used to carry water from the so xclude any system pipe within the selected field.)	urce to the system				
	YES – [Continue]   NC	<b>D</b> – [Go to item 10]					
				INCHES			
	a. What was the average diameter ( <i>in</i> of this additional pipe used?	n inches) of the most common type		1212			
				FEET			
	b. How many feet of this additional pipe were used to bring water to this field?						
		RUN-OFF CODES					
		1 retained at the end of the field?		CODE			
10		2 reused to irrigate on the farm?		1214			
10.	Is the run-off from this field	<ul><li>3 collected in evaporation ponds on the farm?</li><li>4 drained from the farm?</li></ul>					

Η		MANAGEMENT	Н
1.		response to higher or more volatile fuel prices during the 2009 crop year winter wheat, did you	
	a.	reduce the number of field operations such as tillage, cultivation, or nutrient	CODE
		and pesticide applications on this field ( <i>i.e., compared to what you would have otherwise applied</i> )?	1220
	b.	reduce the amount of irrigation water on this field ( <i>i.e.</i> , <i>compared to what you would have otherwise applied</i> )?YES = 1	1222
			1000
	c.	change other production practices on this field? [ <i>If yes, specify</i> :] YES = 1	1223
2.		response to higher or more volatile fertilizer prices during the 2009 crop year winter wheat, did you	CODE
	a.	reduce the application rate of commercial nitrogen fertilizer on this field	1224
		(i.e., compared to what you would have otherwise applied)?	
		<ul> <li>(i) [If YES, ask]</li> <li>By what percent did you reduce the amount of commercial</li> </ul>	PERCENT
		nitrogen fertilizer applied for 2009?	1225
	b.	change the type of commercial nitrogen fertilizer products applied on this field	CODE
		(i.e., compared to what you would have otherwise applied)? [e.g. less anhydrous ammonia and more UAN]	1226
	c.	increase the application rate of manure or other organic fertilizers on this field ( <i>i.e.</i> , compared to what you would have otherwise applied)?	1227
	d.	manage fertilizer more closely, with such practices as soil testing, split applications,	
		variable rate applications, or soil incorporation on this field (i.e., compared to what	1228
		you would have otherwise done)?	
3.	Wa	this field irrigated in 2008 and in 2009?	
0.		YES – [Continue] [Go to Conclusion]	
4.	Dic	l you alter production practices in 2009 due specifically to reduced availability	<b>CODE</b> 1221
		water supplies for irrigation on this field?	1221
_	[ <i>lf</i> ]	YES, continue; else go to <b>Conclusion</b> ]	
	a.		1229
		of water supplies?	
	b.		1230
		of water supplies?	

# CONCLUSION

LO	CATION OF SELECTED FIELD			
1.	I need to locate the selected field of winter wheat on this map.	COUNTY NAME		OFFICE USE COUNTY FIPS CODE
	What county is the selected winter wheat field in?			0010
	Field description			
FO	R STATES WITH GPS UNITS ONLY	LATITUDE	LON	GITUDE
	Field location N	W 0055		  
2.	[ENUMERATOR ACTION: Mark map to indicate where Be sure the "X" marked on n	the selected winter wheat field is lo hap is in the county identified above	cated. .]	
3.	We will need additional information to complete this or March 2010 to collect it. I'll call you then to set up		oruary	
				CODE
4.	Would you like to receive a free copy of the results of (Results will also be available on the Internet at http://www.nass.usda.g		YES = 1	0099
				HH MM
5.	ENDING TIME [MILITARY].			0005
RE	CORDS USE			
6.	[Did respondent use farm/ranch records to report]			CODE
	a. [fertilizer data?]		. YES = 1	0011
	b. [ <b>pesticide</b> data?]		. YES = 1	0012
	c. [majority of this <b>expense</b> data?]		. YES = 1	0013
				NUMBER
SU	PPLEMENTS USED		RTILIZER	0041
7.	[Record the total number of each type of supplement used to complete this interview.].	P	ESTICIDE PLICATIONS	0042
			FIELD	0043

OPERATIONS

Repo	rted by:					_ Telephon	e: ()_							
Response		Respo	ondent	Mode	e Enum	Eval.	Date	0	Optional					
								MM DD YY						
1-Comp 2-R 3-Inac	9901	1- Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other	9902	2-Tel 3-Face-to-Face	9903	0098	0100	9910 <b>0</b> 9	0002 9	0003				
S/E Name			•	*	•	•	•	•	·					