

PARTNER NAME

STATE

ZIP

**ADDRESS** 

CITY

#### AGRICULTURAL RESOURCE MANAGEMENT SURVEY

# BARLEY PRODUCTION PRACTICES AND COSTS REPORT





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

							mail: nass@n	
VERSION		ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE	
2			01		0	000	00	ECONOMIC RESEARCH SERVICE
			I					
			CONTACT R	RECORD				
DATE	TIME			١	NOTES			
INTRODUCTION	ON: eelf, and ask for the	e operator. Rephra	ase in your own w	vords.]				
We are collecting information on practices and costs to produce barley and need your help to make the information as accurate as possible. Authority for collection of information on the Barley 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 <b>confidential</b> and used only for statistical purposes. Response is <b>voluntary</b> .								
We encourage y	We encourage you to refer to your farm records during the interview.							
HHMM BEGINNING TIME 0004								
						[MILITA	4RY]	
								SCREENING BOX
								0006
_	lress and partne	rs verified and up						
POID				POID			_	
PARTNER NAME			Р	ARTNER NAM	IE			
ADDRESS			A	DDRESS				
CITY	STATE	ZIP PHO	NE NUMBER C	ITY	S	TATE ZIP	Р	HONE NUMBER
POID			P	POID				

PARTNER NAME

STATE ZIP

PHONE NUMBER

**ADDRESS** 

CITY

PHONE NUMBER

Α

# **BARLEY FIELD SELECTION**

_	Δ

			TOTAL PLANTED ACRES
1.	How many acres of barley did this operation plant for	the 2011 crop year?	
	[If no acres planted, review Screening Survey Information then go to item 4 on back page.]	Form, make notes,	
	Of the total ( <i>item 1</i> ), how many acres were planted for		
	foodbade 0		0051
	a. feed barley?		0052
	b. malt barley?		
2.	I will follow a simple procedure to make a random sele for the 2011 crop.	ection from the barley fields planted	TOTAL NUMBER OF
	What is the TOTAL number of barley fields that were p	lanted on this operation?	FIELDS PLANTED
	[If only one field, enter "1" and go to item 5.]		
	Then I will tell you which field has been selected.  [If there are more than 18 fields, make sure item 2 is TOTAL fields plants operator's permanent residence. If respondent is unable to identify or des Grid Supplement.]  FIELD NAME, NUMBER OR DESCRIPTION		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 air the last numbered field in item 3. Select the field according to the label, and record the selected number. If only one field, ent	he number you circled on	SELECTED FIELD NUMBER
5.	The field selected is (field name/number/de	scription).	
	During this interview, the barley questions will be about this [Be sure the operator can identify the selected field.]	s selected barley field.	
			OFFICE USE OY Field Substituted 0022

_
О
_
_

					ACRES
1.	How many acres of barley did plant in this field for the 2011 of	this operation crop?		1301	, !
		•		'	
		1 feed?			CODE
	a. Was this field planted for	2 malt?		1324	
	a. Was this held planted for			-	2225
				1300	CODE
	b. Are the acres in this field <b>CE</b>	RTIFIED ORGANIC?	YES = 1		
	[If YES, skip 1c and ask item	2.]			CODE
				1399	
	c. Was this field transitioning in	to organic barley production in 2011?	YES = 1	·	
		<ul><li>1 owned by this operation?</li><li>2 rented for CASH with the payment being a fixed of</li></ul>	cash amount?		CODE
2.	Were the acres in this field	3 rented for CASH with the payment being a flexibl		1302	
		<ul><li>4 rented for a SHARE of the crop?</li><li>5 rented for some combination of CASH and SHAR</li></ul>	RE of the crop?		
		6 used RENT FREE?			
					ARS & CENTS
3.	•	2 = 2, 3, or 5), ask item 3; else go to item 4.]		1303	
	What was the cash rent paid p	er acre for this 2011 barley field?			·
4.	[If field is SHARE RENTED (item	2 = 4 or 5), ask]		1304	PERCENT
	What was the landlord's share	of the crop from this field?		1304	
5.	[If field is RENTED (item 2 = 2, 3	4 or 5) ask1			
	-	inputs provided by any landlord	DOLLARS & CENTS PER ACRE OF	R TOT	AL DOLLARS
		ed field? (Include the costs for all inputs, ical services, custom operations, and irrigation.	1305	1306	
		ne costs paid by the landowner.)	·		
			DOLLARS & CENTS		
6.		inputs provided by any contractor	PER ACRE OF	1310	AL DOLLARS
		ed field? (Include the costs for all inputs, ical services, custom operations, and irrigation.)	·	.5.5	
					MM DD YY
7	On what data was this field pla	ntod?		1308	

	a.	When planted, was this barley field planted with the intention of ( <i>Include</i> barley planted for commercial seed contract under other uses.).	1 Dual purpos 2 Harvesting 3 Grazing onl 4 Cover crop 5 Other uses	y? ?	1	<b>CODE</b> 1307
	b.	What was your yield goal at planting for this field	?			1311
			ſ	1 Purchased?		CODE
8.	Wa	s the source of the barley seed		2 Homegrown or tr 3 Both?	aded? 	1317
	a.	[If item 8 = 2 or 3, ask]				PERCENT
		How much of the barley seed planted in this field was grown (or received in trade) by this operation				1318
						DOLLARS & CENTS PER BUSHEL
		(i) What was the cost per bushel for cleaning ar	nd treating this	s seed?		1321
		(,	3			
9.	[If a	any seed purchased (item 8 = 1 or 3), ask]			DOLLARS & CENTS PER UNIT	UNIT CODE  1 = POUND 2 = CWT 3 = TON 4 = BUSHEL 22 = ACRE 23 = 50 LB BAG
		at was the total cost per unit (including both yourchased seed for this field? (Include cost of see			1319	1320
					UNITS PER ACRE	UNIT CODE  1 = POUNDS 2 = CWT 3 = TONS 4 = BUSHELS 23 = 50 LB BAGS
10.	Wh	at was the seeding rate per acre the first time	this field was	s planted?	1313 	1314
						ACRES
11.		w many acres in this field had to be replanted to see replanted = Number of acres x Number of times replanted	-			1315
						CODE
12.		s straw harvested from this field?				1354
		YES – [Enter code 1 and continue]	- [Go to item	14]		

					ACRES
					1355
13.	Ho	w many acres of barley straw were harvested from	n this barley field?		
					TOTAL TONS
	a.	How many tons of barley straw were harvested from	n these barley ( <i>item 1</i>	3) acres?	1356
		Tons per Acre X Acres = Total Tons OR Bales	- X ÷	2000 =	_
		Tons per Acre Acres Total Tons Bales	Lbs per Bale	Lbs per Ton = Total Tor	าร
				PERCENT	OR TONS
	b.	Of the total barley straw harvested from this barley fi	ield	1357	1358
		(item 13a), what was the landlord's share of the barl	ey straw?	· <u>·—</u> —	
					TOTAL DOLLARS
	C.	What was the total cost of baler twine/wire used to b from this barley field? ( <i>Include landlord's share.</i> )			1359
		TIOTI tills balley lield: (Include landlold's silale.)			
	d.	Was any barley straw sold?			DOLLARS & CENTS PER TON
		If yes, what was the price received per ton for all bar	ley straw (item 13a)		1360
		sold from this barley field?			· · <u>· — —</u>
					CODE
					1328
14.	Has	s harvest of this field been completed?		YES	= 1
15.	Nov	w I need information about the acres harvested (o	r to be harvested) and	d the yields from this	s field.
				1	2
				What	UNIT CODE
	Ho	w many acres in the barley		yield per acre did you (or do you	1 POUNDS
	fiel	d were (or will be)		expect to)	2 CWT 3 TONS
				get for barley	4 BUSHELS
			ACRES	UNITS PER ACRE	CODE
	a.	harvested for grain?	1346	1347	1348
			1349	1350	TONG
	b.	harvested for hay, silage or green chop?		· <u> </u>	TONS
	C.	harvested for commercial seed contract?	1431	1432	1433
			1351		
	d.	abandoned?			
	e.	used for some other purpose?	1439		
			•		
					CODE
16.		any livestock graze this barley field during the 20	. •		1400
	Ш,	YES - [Enter code 1 and continue]	o to item 18]	• • • • • • • • • • • • • • • • • • • •	
		<u>-</u>			
17	Wh	at type of livestock grazed this barley field	1 Cattle		
11.		ring the 2011 crop year? (Include livestock	2 Sheep		CODE
	graz	ing before barley harvest and livestock "grazing-out"	3 Other [Specify:	1	1361
	une i	ield instead of harvesting barley.)			• • •
					HFΔD
					<b>HEAD</b> 1362

		DAYS
		1363
b.	How many days did this livestock graze on this barley field?	
		CODE
		1330
C.	Was this barley field "grazed-out" instead of harvested for grain? YES = 1	
		CODE
d.	Was payment received from others for livestock grazing on this field?	1364
	☐ YES - [Enter code 1 and continue] ☐ NO - [Go to item 18]	
		TOTAL DOLLARS
		1365
	(i) What is the total dollar amount received? (Include landlord's share.)	

	CROP CODE LIST for item 18 – 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	
		20	Potatoes	31	Sweet Potatoes		during this period	

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

1			2			
What crops were PLANTED on this field in						
SEASON AND YEAR	CROP NAME	CROP CODE	YES = 1			
a. FALL of 2010?		1343	1345			
b. SPRING/SUMMER of 2010?		1369	1371			
c. <b>FALL of 2009?</b>		1372	1374			
d. SPRING/SUMMER of 2009?		1375	1377			
e. <b>FALL of 2008?</b>		1378	1380			
f. SPRING/SUMMER of 2008?		1381	1383			
g. <b>FALL of 2007?</b>		1366	1368			
h. SPRING/SUMMER of 2007?		1340	1342			

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

DOLLARS & CENTS PER ACRE

		PER ACRE
İ.	[If a cover crop was planted in Spring/Summer/Fall 2010, ask]	1468
	What was the seed cost per acre for the cover crop?	

## 19. In 2011, did your land-use practices for this field include any of the following---

1  LAND-USE PRACTICE	Was this practice used?  YES = 1	3 What year was this practice first used?	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. Structures for soil erosion control?	1-74-1		
(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) Conservation tillage / no-till	1437	1449	1459
(iii) Other Practices [Specify:]	1436	1450	1460

OFFICE USE

1440		

20.	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 the properties (UELC) requirements. Produces who receive		CODE
	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.)		1404
	(A "written plan" is a plan prepared in accordance with Federal, State, or district standards.) YE	S = 1	
		_	_
		Ē	
04	Have very been madified by NDOO that this field contains a matter do		1405
∠1.	Have you been notified by NRCS that this field contains a wetland? YE	S = 1 [	

#### 22. During 2011, did any written plan of the following types cover this field---

(Be sure to include soil conservation plans required under Highly Erodible Land Conservation (conservation compliance) provisions. Producers who have been notified of highly erodible land are subject to HELC requirements and must have (and apply) a written soil conservation plan to be eligible for most farm program payments.)

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

	1 WRITTEN PLAN TYPE	2 Was this type of written plan used?	3 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:  1 Environmental Quality Incentives Program (EQIP)?  2 Conservation Security or Conservation Stewardshio Programs (CSP)?
		YES = 1	YEAR	Conservation Reserve Program (CRP)?     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

						CODE
23.	Wa	is the barley in this field covered by	Federal Crop Insurance in 2011?			1385
		YES – [Enter code 1 and continue]	☐ <b>NO</b> – [Go to item 24]			
						CODE
			1 Federal CAT (basic catastrophic insu			1386
	2	Which coverage did you obtain?	<ul><li>2 Buy-up above Federal CAT yield and</li><li>3 Revenue insurance</li></ul>	d/or price level		1000
	a.	which coverage did you obtain:	4 Organic plan insurance			
			5 Other Federal Crop insurance			
		(i) [If item a = 3, ask]				PERCENT
			verses you obtained for this field?			1389
		What was the level of revenue co	verage you obtained for this field?			
						YEAR
	b.	In what year did you (the operator listed				1387
		in the Federal crop insurance program	1?			
						BUSHELS PER ACRE
						1388
	C.	What is the 2011 Approved APH (actu	al production history) yield for this field?	?		
				DOLLADO S OFNIT		
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	Ч	What was the premium paid for Feder	ral cron insurance	1390	1	1391
	u.	for this field in 2011? (Exclude any sign-		·		
					_	CODE
	_	Did (an will) as lie at an independent	it			1392
	e.	Did you (or will you) collect an indemr from federal crop insurance during 20	nity payment for this field	VE	S = 1	1392
		nom rederal crop insurance during 20			.5 - 1	
24	W.	is the barley in this field covered by	nrivato eron incurance			0005
<b>4</b> 4.		2011 (hail, wind, freeze, etc.)?	private crop insurance			CODE
		YES – [Enter code 1 and continue]	☐ <b>NO</b> – [Go to <b>Section C</b> ]			1393
		TES - [Erner code 'r and continue]	110 = [00 to Section 0]			
				DOLLARS & CENTS	3	
				PER ACRE	OR	TOTAL DOLLARS
	a.	What was the premium paid for privat		1395		1396
		for this field in 2011? (Exclude any sign-	up fee.)			
						YEAR
	b.	In what year did you (the operator liste				1397
		private crop insurance for this field?				
						CODE
	C.	Did you (or will you) collect an indemr	nity payment for this field			1394
		from private crop insurance during 20		YE	S = 1	

## NOTES

				CODE	EDIT TABLE			
1.	Were commercial nutrients of 2011 barley crop?	0202	0201					
2.	[If COMMERCIAL nutrient or fe	ertili.	zer applied, continue; else go to item 7.]		NUMBER			
3.			or fertilizer applications were made to this field for smade by airplanes and custom applicators.)		0203			
4. Now I need to record information for each application.								
I I	CHEC	K	LIST					
I <b>√</b>	INCLUDE	✓	EXCLUDE					
	Custom applied nutrients or fertilizers		Micronutrients					
<u> </u>	Nutrients or fertilizers		Unprocessed manure					
I —	applied in the fall of 2010 and those applied earlier		Nutrients or fertilizers applied					
ı	if this field was fallow in 2010		to previous crops in this field	T-TYPE	TABLE			
I			<u> </u>	2	001			
	Commercially prepared manure or compost		Lime and gypsum/landplaster LINE 99	OFFICE USE LINES IN TABLE	0213			
. –				-	-			

L I N E	[Enter percentage analysis or actual		MATERIALS USED  [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]  [Show Common Nutrients or Fertilizers		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	When was this applied?  1 In the fall before seeding 2 In the spring before seeding 3 At seeding	6 How was this applied?  [Refer to code list above.]	7 How many acres were treated in this application?
	<b>N</b> Nitrogen	P2O5 Phosphate	<b>K2O</b> Potash	<b>S</b> Sulfur		nutrients	4 After seeding		ACRES
01	0205	0206	0207	0214	0208	0209	0210	0211	0212
02	0205	0206	0207	0214	0208	0209	0210	0211	0212
03	0205	0206	0207	0214	0208	0209	0210	0211	0212
04	0205	0206	0207	0214	0208	0209	0210	0211	0212
05	0205	0206	0207	0214	0208	0209	0210	0211	0212
06	0205	0206	0207	0214	0208	0209	0210	0211	0212
07	0205	0206	0207	0214	0208	0209	0210	0211	0212
08	0205	0206	0207	0214	0208	0209	0210	0211	0212

T-TYPE	TABLE	LINE
0	000	00

**APPLICATION CODES for COLUMN 6** 

5 In irrigation water

6 Chisel/Injected or knifed in

7 Banded in or over row

8 Foliar or directed spray

1 Broadcast, ground without incorporation

2 Broadcast, ground with incorporation

3 Broadcast, by aircraft

4 In seed furrow

	•••	re any nutrients or fertilizers applied by	y custom applicators:			
		YES - [Continue]	NO - [Go to item 6]			
	a.	Are you able to report the cost of nutrient	t or fertilizer materials			OFFICE USE
		and custom application separately?  YES - [Continue]	NO - [Go to item 6]			0215
	h		-			
	b.	Excluding the cost of the nutrient or fertili was spent for custom application of nutrie		DOLLARS & CEN	NTS	
		field? (Include operator, landlord, and contractor and micronutrients. Exclude custom application of		PER ACRE		TOTAL DOLLARS
		and purchased compost.) [If material and application of them here and record the total in item 6.]	on costs can't be separated, <b>exclude</b>	0219		0220
		them here and record the total in term o.j		·		
6.		nat was the TOTAL COST of all nutrient olied to this field? (Include operator, landloro		DOLLARS & CEN	ITC	
	as ti	he costs for sulfur and micronutrients. [If custom app	plied and the cost of materials	DOLLARS & CEN PER ACRE	OR	TOTAL DOLLARS
	inclu	be separated from application costs, <b>include</b> the coude both the material and application costs.] <b>Include</b>	e materials applied to this field	0221		0222
	IT IT V	was fallow in 2010. <b>Exclude</b> lime, gypsum, purchas	ed manure and purcnased compost.)	· <u> </u>		CODE
						<b>CODE</b> 0218
7.	Wa	s gypsum applied to this field for the 2	011 barley crop?		YES = 1	02.0
8.	Wa	s a soil or plant tissue test performed o	on this barley field			
		2010 or 2011 for the 2011 crop?	•			
		YES [Continue] ☐ NO [Go to ite	em 13]			
						CODE
					i	
9.		is a soil test for phosphorus performed			VES = 1	0225
9.	in 2	2010 or 2011 for the 2011 crop?			YES = 1	0225
9.					YES = 1	
9.	in 2	2010 or 2011 for the 2011 crop?				0225 POUNDS PER ACRE
9.	in 2	2010 or 2011 for the 2011 crop? [If phosphorus test done, ask]				0225  POUNDS PER ACRE 0226  CODE
	in 2 a. Wa	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on	cre) were recommended (by the ph	nosphorus test)'	?	0225  POUNDS PER ACRE 0226
	in 2 a. Wa in 2	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per action as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?	cre) were recommended (by the ph	nosphorus test)'		0225  POUNDS PER ACRE 0226  CODE 0227
	in 2 a. Wa in 2	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per acts a soil test for nitrogen performed on	cre) were recommended (by the ph	nosphorus test)'	?	0225  POUNDS PER ACRE 0226  CODE
	in 2 a. Wa in 2	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per action as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?	cre) were recommended (by the ph	nosphorus test)'	? YES = 1	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE
	in 2 a. Wa in 2	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]	cre) were recommended (by the ph	nosphorus test)'	? YES = 1	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE
10.	in 2 a. Wa in 2 a.	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for	this barley field were recommended (by the ph	nosphorus test)'	? YES = 1	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228
10.	in 2 a. Wa in 2 a.	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre)	this barley field were recommended (by the ph	nosphorus test)'	? YES = 1	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE
10.	in 2 a. Wa in 2 a.	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for	this barley field were recommended (by the ph	nosphorus test)  en test)?  DOLLARS & CE	? YES = 1 YES = 1 NTS	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229
10.	in 2 a. Wa in 2 a. Wa on	2010 or 2011 for the 2011 crop?	this barley field were recommended (by the ph	nosphorus test)'en test)?	? YES = 1 YES = 1 NTS	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE
10.	waa. Waa on	2010 or 2011 for the 2011 crop?  [If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for	this barley field were recommended (by the ph	en test)?  DOLLARS & CE PER ACRE  0230	? YES = 1 YES = 1 NTS	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	waa. Waa on	2010 or 2011 for the 2011 crop?	this barley field were recommended (by the phase) were recommended (by the nitrogon nutrient deficiency performed lant tissue tests	en test)?  DOLLARS & CE PER ACRE  0230	? YES = 1 YES = 1 NTS	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	waa. Waa on	[If phosphorus test done, ask]  How many pounds of phosphorus (per act as a soil test for nitrogen performed on 2010 or 2011 for the 2011 crop?  [If nitrogen test done, ask]  How many pounds of nitrogen (per acre) as a plant tissue test or leaf analysis for this field for the 2011 crop?	this barley field  were recommended (by the phase)  were recommended (by the nitrog  nutrient deficiency performed  lant tissue tests  tractor costs.).	en test)?  DOLLARS & CE PER ACRE  0230  charge on service	? YES = 1 YES = 1 NTS	0225  POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS
10.	wa in 2 a.  Wa on	2010 or 2011 for the 2011 crop?	this barley field  were recommended (by the phase)  were recommended (by the nitrog  nutrient deficiency performed  lant tissue tests  tractor costs.)	en test)?  DOLLARS & CE PER ACRE  0230  charge on service	? YES = 1 YES = 1 NTS	POUNDS PER ACRE 0226  CODE 0227  POUNDS PER ACRE 0228  CODE 0229  TOTAL DOLLARS 0231

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

14.	Wa	s the amount of nitrogen you decided to apply to this field based on	CODE
			0233
	a.	Results of a soil or plant tissue test? YES = 1	
	b.	Crop consultant recommendation?	0234
	υ.	Crop consultant recommendation:	0235
	C.	Fertilizer dealer recommendation? YES = 1	0233
			0236
	d.	Extension Service recommendation? YES = 1	
			0237
	e.	Cost of nitrogen and/or expected commodity price? YES = 1	
	£	Contractor recommendation?	0238
	f.		0239
	g.	Routine practice (operator's own determination based on past experience, yield goal, etc.)?YES = 1	0239
15	Did	you purchase any commercial nitrogen fertilizer applied to this field	CODE
	und	der contract or otherwise pre-purchase the fertilizer at a pre-determined	0223
	•	ce prior to planting?YES = 1	
	a.	[If YES, ask]	
		What month prior to planting for the 2011 crop did you contract for the	0224
		fertilizer used on this field? [Enter code "1" for January, "2" for February, etc.]	
			227
			0242
16.	ls li	me ever applied to this field? YES = 1	0242
		• •	
	[IT T	no lime applied, go to item 17; else continue.]	YEARS
	a.	On average, how many years are there between applications of <b>lime</b> to this field?	0243
	u.	on average, now many years are there between applications of time to this heid:	
			TONS PER ACRE
	h	How many tons of <b>lime</b> were applied per acre the last time it was applied to this field?	0244
	υ.	Tiow many tons of <b>inne</b> were applied per acre the last time it was applied to this field?	
			CODE
	_	Man line and line and line this field in 2040 on 2044 for the 2044 case 2	0240
	C.	Was lime applied to this field in 2010 or 2011 for the 2011 crop? YES = 1	
	d.	[If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask]	PERCENT
		Considering the last time it was applied, what percent of the total cost of lime	0245
		and its application was paid by the landlord(s)?	

17.	ma	s non-commercial manure terial (excluding compost) a pared manure.)				'y	<b>CODE</b>
	$\Box$	YES - [Enter code 1 and con	tinue] NO	- [Go to item 19]			0246
		•	. –				ACRES
	a.	How many acres in this field	I was manure applied to?	?			·
			[ ]	CODE	UNITS PER ACRE	OR	TOTAL UNITS
	b.	What was the amount of ma applied to this field?		0248	0249		0250 ·
							MILES
							0251
	C.	What is the distance between	en the manure storage/pr	oduction location a	nd this field?		
				1 TONS	CODE		TOTAL UNITS
	d.	What was the capacity of th		2 GALLONS	0252	AND	0253
		(or other vehicle) used to ha	aul manure to this field?.	3 BUSHELS .		AND	· <u> </u>
	e.	Of the total manure applied crop, what was the percent					PERCENT
		, , , , , , , , , , , , , , , , , , ,					0254
		(i) in the fall before planting	g?			+	
		(ii) in the environ before play	ation at 2			+	0255
		(ii) in the spring before plar	nting?			т	0256
		(iii) after planting?				+	0200
							100%
			1 Lagoon liquid? 2 Slurry liquid?				<b>CODE</b> 0257
	f.	Was the manure	·				0237
			, ,				
			1 Broadcast or sprayed	without incorporation?	,		
			2 Broadcast or sprayed	with incorporation?			CODE
	g.	Was the manure	<ul><li>3 Injected/knifed in?</li><li>4 Sprayed using irrigatio</li></ul>	n systems?			0258
	•		4 Oprayed daing imgatio	Traysterna:			
		<b>NA</b> 7 (1	<ul><li>1 Beef cattle?</li><li>2 Dairy cattle?</li></ul>				<b>CODE</b> 0259
	h.	Was the major source of the manure from	3 Hogs?				0259
		2. 3.23.10.0 110111	4 Sheep? 5 Poultry?				L
			6 Equine?				
			7 Biosolids (municipal sl	udge)?			
			<ul><li>8 Food waste?</li><li>9 Other? [Specify:</li></ul>		1		

	i.	Was the manure	<ul><li>1 Produced on this operation?</li><li>2 Purchased?</li><li>3 Obtained at no cost off this operation?</li></ul>		CODE
			4 Obtained with compensation? (Operator received payment for accepting the manure.)		0260
		(i) [If item 17i = 2, ask	•	DOLLARS & CENTS PER ACRE OR	TOTAL DOLLARS
			est of the purchased manure applied  any payment made for transportation costs.)	0284 - <u> </u>	0285
					CODE
		(ii) Did you hire someone	e to custom apply the manure?	YES = 1	0286
		(1) [If YES, ask]		DOLLARS & CENTS	TOTAL DOLLARS
		to this field? [Do i	al cost paid to have manure custom applied not report custom application cost if it was included with	PER ACRE OR 0287	0288
		the purchased manur	e cost.]	·	
			Abia field was any heated for a desirat contact		<b>CODE</b> 0261
	j.		this field, was any tested for nutrient content	YES = 1	0201
	k.		of commercial nitrogen fertilizer on this field pplication?	YES = 1	0262
		(i) [If YES, ask]			PERCENT
			ou reduce the commercial nitrogen fertilizer s field?		0263
					CODE
	l.		harvest date for this field due to the	V=0 4	0280
		application of manure?		YES = 1	
					CODE
18.			FION RATES to this field influenced by Federa		0264
		•		123-1	
	a.	[If item 18 is YES, ask] What hasis was used to d	letermine these manure application rate restrictio	nns	CODE
		That basis was assa to t	istermina these manare approached rate restricted		0265
		(i) Nitrogen requirement	of the crop?	YES = 1	
		(ii) Dhaanhaana '	and of the area?		0266
		(ii) Phosphorus requirem	ent of the crop?	YES = 1	

19. Was compost applied to this field for the 2011 barley crop?    YES - [Enter code 1 and continue]	ACRES  a. To how many acres in this field was the compost applied?  b. What was the amount of compost applied to this field?  1 Tons 2 Cubic Yards  2 Cubic Yards  2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 5 Poultry? 5 Poultry? 10 Other? [Specify:] 1 Other? [Specify:] 2 Obtained at no cost off this operation? 4 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the 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.].						CODE
a. To how many acres in this field was the compost applied?	a. To how many acres in this field was the compost applied?  b. What was the amount of compost applied to this field?  1 Tons 2 Cubic Yards  2 Dainy cattle? 2 Dainy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (municipal sludge)? 8 Food waste? 9 Crop? [Specify:] 10 Other? [Specify:] 10 Other? [Specify:] 10 Other? [Specify:] 11 Other? [Specify:] 12 Produced on this operation? 13 Obtained with compensation? (Operator received payment for accepting the compost.)  1 If item 19d = 2, ask] 1 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   DOLLARS and Cents PER ACRE   DOLLARS and Cents PER ACRE   DOLLARS and Cents PER ACRE   DOLLARS applied to this field? (Include operator. landlord, and contractor costs.)   Dollars & Cents PER ACRE   DOLLARS and Cents PER ACRE   DOLLARS   DOLLARS and Cents PER ACRE   DOLLARS	19.			• • • • • • • • • • • • • • • • • • • •		0267
a. To how many acres in this field was the compost applied?	a. To how many acres in this field was the compost applied?			YES	6 - [Enter code 1 and continue]	$\square$ NO - [Go to Section D]	
a. To how many acres in this field was the compost applied?	a. To how many acres in this field was the compost applied?						ACRES
b. What was the amount of compost applied to this field?  c. Were the major sources of the compost from  d. Was the compost  d. Was the compost  (i) [If item 19d = 2, ask]  What was the total cost of the purchased compost applied to this field? (Include operator, landiord, and contractor costs and applied to this field? (Include operator, landiord, and contractor costs.)  (i) [If YES, ask]  What was the total cost paid to have compost custom application cost if it was included with the compost cost.].  (ii) [If YES, ask]  What was the total cost paid to have compost custom application cost if it was included with the compost cost.].  (iii) Don or report custom application cost if it was included with the compost cost.].  (iii) Don or report custom application cost if it was included with the compost cost.].  (iiii) Don or report custom application cost if it was included with the compost cost.].  (iiii) Don or report custom application cost if it was included with the compost cost.].  (iiii) Did you hire someone to custom application cost if it was included with the compost cost.].  (iiii) Did you hire someone to custom application cost if it was included with the compost cost.].  (iiii) Did you hire someone to custom application cost if it was included with the compost cost.].  (iiii) Did you hire someone to custom application cost if it was included with the compost cost.].  (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	b. What was the amount of compost applied to this field?    Tons 2						0268
b. What was the amount of compost applied to this field?	b. What was the amount of compost applied to this field?		a.	То	how many acres in this field was t	he compost applied?	
b. What was the amount of compost applied to this field?	b. What was the amount of compost applied to this field?						
b. What was the amount of compost applied to this field?	b. What was the amount of compost applied to this field?						
Counting the compost applied to this field?   Counting the compost applied to this field?   Counting the compost from the c	Code   Code					1 Tons	
[Enter up to 3 source codes]  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:] 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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the compost custom applied to this field? (Include operator, landlord, and contractor costs.)  (iv) [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.].  MILES    Incler up to 3 source codes   FIRST   0281   SECOND   0282   THIRD   0283   CODE   0272   THIRD   0283   CODE   0272   CODE   0272   CODE   0274   CODE   0274   CODE   0275   CODE   0275   CODE   0276   CODE   027	[Enter up to 3 source codes]    1   Beef cattle?   2   Dairy cattle?   3   Hogs?   4   Sheep?   5   Poultry?   6   Equine?   7   Biosolids (municipal studge)?   8   Food waste?   9   Crop? (Specify:]   1   0   Other? (Specify:]   1   Other? (Specify:]   1   Other? (Specify:]   1   Produced on this operation?   CODE   Ozeas		b.				0271
c. Were the major sources of the compost from  of the compost from  d. Was the compost  (i) [If item 19d = 2, ask]  What was the total cost of the purchased compost applied to this field? (Include operator, landlord, and contractor costs.)  (ii) Did you hire someone to custom application cost if it was included with the compost cost.]  1 Beef cattle?  2 Dairy cattle?  3 Hogs?  4 Sheep?  5 Poultry?  6 Equine?  7 Biosolids (municipal sludge)?  8 FIRST  0281  1 Produced on this operation?  9 Crop? [Specify:]  10 Other? [Specify:]  10 Other? [Specify:]  11 Produced on this operation?  12 Purchased?  3 Obtained at no cost off this operation?  4 Obtained with compensation? (Operator received payment for accepting the compost.)  1 Produced on this operation?  2 Purchased?  3 Obtained at no cost off this operation?  4 Obtained with compensation?  Dollars & CENTS PER ACRE  0273  CODE  0775  CODE  0775  MILES	c. Were the major sources of the compost from			app	officed to trits field?		·
Third  I 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:]  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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the 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.].  MILES	Third  I 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:]  1 Produced on this operation?  2 Purchased?  3 Obtained at no cost off this operator?  4 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the 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.]  MILES  MILES						•
c. Were the major sources of the compost from	c. Were the major sources of the compost from						-
c. Were the major sources of the compost from  a Sheep? 5 Poultry? 6 Equine? 7 Bissolids (municipal sludge)? 8 Food waste? 9 Crop? [Specify:] 10 Other? [Specify:] 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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the compost custom applied to this field? (Include operator, landlord, and contractor costs.)  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.].  MILES  MILES	c. Were the major sources of the compost from						
c. Were the major sources of the compost from  of the compost from  1	c. Were the major sources of the compost from    A Sheep?						0281
c. Were the major sources of the compost from    S	c. Were the major sources of the compost from    Sequine					4 Sheep?	SECOND
THIRD  7 Biosolids (municipal sludge)? 8 Food waste? 9 Crop? [Specify:] 10 Other? [Specify:] 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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the 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.).  MILES	THIRD  7 Biosolids (municipal sludge)? 8 Food waste? 9 Crop? [Specify:] 10 Other? [Specify:] 11 Other? [Specify:] 12 Produced on this operation? 2 Purchased? 3 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the compost custom applied to this field? (Include operator, landlord, and contractor costs.)  (I) [If YES, ask] What was the total cost paid to have compost custom applied to this field? (Include operator, landlord, and contractor costs.)  (I) [Do not report custom application cost if it was included with the compost cost.].  MILES		C.				
d. Was the compost  d. Was the compost  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom applied to this field? (Include operator, landlord, and contractor costs.)  (iii) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Do not report custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).  (iv) Did you hire someone to custom application cost if it was included with the compost cost.).	d. Was the compost  1 Produced on this operation? 2 Purchased? 3 Obtained at no cost off this operator? 4 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the compost custom applied to this field? (Include operator, landlord, and contractor costs.)  (iv) If 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.]  MILES			OT T	ne compost from	· ·	
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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to custom apply the 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.].  MILES	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.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (iii) Did you hire someone to 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.].  MILES						THIRD
d. Was the compost    1	d. Was the compost    1						0283
d. Was the compost    2 Purchased?   3 Obtained at no cost off this operation?   4 Obtained with compensation? (Operator received payment for accepting the compost.)   0272   0272	d. Was the compost    2 Purchased?   3 Obtained at no cost off this operation?   4 Obtained with compensation? (Operator received payment for accepting the compost.)   0272					10 Other? [Specify:]	
d. Was the compost    2 Purchased?   3 Obtained at no cost off this operation?   4 Obtained with compensation? (Operator received payment for accepting the compost.)   0272   0272	d. Was the compost    2 Purchased?   3 Obtained at no cost off this operation?   4 Obtained with compensation? (Operator received payment for accepting the compost.)   0272						
d. Was the compost  3 Obtained at no cost off this operation? 4 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  MILES  DOLLARS & CENTS PER ACRE  0273  CODE  0275  DOLLARS & CENTS PER ACRE  0276  TOTAL DOLLARS  0277  MILES	d. Was the compost  4 Obtained at no cost off this operation?  4 Obtained with compensation? (Operator received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  MILES						
received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  MILES	received payment for accepting the compost.)  (i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  MILES		d.	Was the compost			CODE
(i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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  OR  TOTAL DOLLARS  0275  DOLLARS & CENTS PER ACRE  OR  TOTAL DOLLARS  0277  MILES	(i) [If item 19d = 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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  MILES						0272
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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  (1) MILES	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.)  (ii) Did you hire someone to custom apply the compost?  (1) [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.].  (iii) [If item 19d = 1, ask .]  MILES					received payment for accepting the compost.)	
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.)	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.)			(i)	[If item 19d = 2, ask]	DOLLARS & CENTS	
code  (ii) Did you hire someone to custom apply the compost?	code  (ii) Did you hire someone to custom apply the compost?				What was the total cost of the pur	DED 40DE 0D	TOTAL DOLLARS
(ii) Did you hire someone to custom apply the compost?	(ii) Did you hire someone to custom apply the compost?				, ,	·	0274
(ii) Did you hire someone to custom apply the compost?	(ii) Did you hire someone to custom apply the compost?				any payment made for transportation cos	ts.)	
(ii) Did you hire someone to custom apply the compost?	(ii) Did you hire someone to custom apply the compost?						CODE
(1) [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  0277  MILES	(1) [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.]  MILES						0275
What was the total cost paid to have compost custom applied to this field? ( <i>Include operator, landlord, and contractor costs.</i> )  [Do not report custom application cost if it was included with the compost cost.]	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.]  MILES			(ii)	Did you hire someone to custom	apply the compost?	
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.]  MILES	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.]				(1) [If YES, ask]	DOLLARS & CENTS	
[Do not report custom application cost if it was included with the compost cost.]	[Do not report custom application cost if it was included with the compost cost.]				What was the total cost paid	DED AODE OD	TOTAL DOLLARS
MILES	(iii) [If item 10d = 1 ask ]				• •	· · · · · · · · · · · · · · · · · · ·	0277
	(iii) [If item 10d = 1 ask ]				ပြဝ not report custom application co	st if it was included with the compost cost.]	
	(iii) [If item 10d = 1 ask ]						MILES
(iii) [If item 19d = 1, ask]	1,4=3,5			(iii)	[If item 19d = 1, ask]		
	What is the distance between the compost storage/production location and this field?				What is the distance between the	compost storage/production location and this field?	

### BIOCONTROL or PESTICIDE APPLICATIONS---SELECTED FIELD

D

Now I have some questions about all the biocontrols or pesticides used on this field for the 2011 barley crop, including both custom applications and applications made by this operation.

,	Ware and harbidge insertialds formulaides another bis sectoris		CODE	EDIT TABLE
1.	Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this barley field for the 2011 crop?	YES = 1	0302	0301
		163-1		

[Probe for applications made in the fall of 2010 (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.

T - TYPE 3 001

LINE OFFICE USE 1081

99 0319

		2	3	4	5	6 O	R 7	8
CHEMICAL PRODUCT NAME	L I N E	What products were applied to this field?  [Show product codes from Respondent Booklet.]	Was this product bought in liquid or dry form? [Enter L or D]	Was this part of a tank mix?  [If tank mix, enter line number of first product in mix.]	When was this applied?  1 BEFORE planting  3 AT planting  4 AFTER planting	How much was applied per acre per application?	What was the total amount applied per application in this field?	[Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	0305		0306	0307	0308	0309	0310
	02	0305		0306	0307	0308	0309	0310
	03	0305		0306	0307	0308	0309	0310
	04	0305		0306	0307	0308	0309	0310
	05	0305		0306	0307	0308	0309	0310
	06	0305		0306	0307	0308	0309	0310
	07	0305		0306	0307	0308	0309	0310
	08	0305		0306	0307	0308	0309	0310
	09	0305		0306	0307	0308	0309	0310
	10	0305		0306	0307	0308	0309	0310
	11	0305		0306	0307	0308	0309	0310
	12	0305		0306	0307	0308	0309	0310
	13	0305		0306	0307	0308	0309	0310
	14	0305		0306	0307	0308	0309	0310

2. [For 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
- 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
L I N E	How was this product applied?  [Enter code from above.]	How many acres in this field were treated with this product?	How many times was it applied? NUMBER	Were these applications made by  1 Operator, partner or family member? 2 Custom applicator? 3 Employee/Other?
01	0311	0312	0313	0316
02	0311	0312	0313	0316
03	0311	0312	0313	0316
04	0311	0312	0313	0316
05	0311	0312	0313	0316
06	0311	0312	0313	0316
07	0311	0312	0313	0316
08	0311	0312	0313	0316
09	0311	0312	0313	0316
10	0311	0312	0313	0316
11	0311	0312	0313	0316
12	0311	0312	0313	0316
13	0311	0312	0313	0316
14	0311	0312	0313	0316

OPTIONAL ITEM 4					
What was the cost per unit of the product?					
	UNIT CODE				
DOLLARS & CENTS PER UNIT	1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces 13 Quarts 30 Grams 14 Pints				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				
0317	0318				

3.	We	ere any chemicals, biocontrols,	, or pesticides applied by custom applicate	ors?			
		YES – [Continue]	□ NO – [Go to item 4]				
					_	OFFICE USE	
	a.	Are you able to report the cost of and custom application separate	of chemical, biocontrol, and pesticide product ely?	is		0324	
		☐ YES – [Continue]	☐ <b>NO</b> – [Go to item 4]				
	h	Evaluding the east of the showi	and biogentral and portioids products	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS	
	D.	how much was spent for custom	cal, biocontrol, and pesticide products, n application of such materials on this field? ctor costs.)	0331		0332	
4.			chemical, biocontrol, or pesticide	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS	
	defo	oliants, herbicides, insecticides, fungicides	Icts applied to this field? (Include operator, landlord, and contractor costs, nts, herbicides, insecticides, fungicides, surfactants, wetting agents, growth regulators, terials applied before planting and during 2010 fallow period. Exclude seed treatments.).			0335	
NC	)TE	1: If respondent cannot report TOTA	AL COST, itemize cost for each product in optional	l columns in Biocontro	ol or	Pesticide Table.	
NC	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.						

## **NOTES**

## PEST MANAGEMENT PRACTICES---SELECTED FIELD

Ε

0811

No	w I have so	me questions al	bout your pest ma	anagement decisions and practices			
				pests, we mean WEEDS, INSECTS, and	T-TYPE	TABLE	LINE
DIS	SEASES.				0	000	00
1.	[ENUMER	ATOR ACTION:	Were PESTICIDE	applications reported in Section D?]			
	☐ YES –	[Continue]					
						COL	ÞΕ
2.	Was weatl	her data used to	assist in determi	ning either the need or when	[	0800	
					YES = 1		
3.				Bacillus thuringiensis), insect growth	[2	2004	
				I based products sprayed or applied		0801	
	to manage	e pests in tills lie	31 <b>u</b> :		123 - 1		
4.	Were pest	icides with diffe	rent mechanisms	of action rotated or tank mixed		0802	
				om becoming resistant to pesticides?	YES = 1		
					_		
5.	[ENUMER	ATOR ACTION:	Were HERBICIDE	(pesticide product codes 3000-4999)			
	-			ted in Section D, item 1, column 2?]			
	☐ YES -	[Continue]		□ NO – [Go to item 8]			
		-		•			
6	Were herh	nicides annlied to	o this barley field		Г	0803	
Ο.	BEFORE V	weeds emerged?	?		YES = 1		
					_		•
7	Were herb	nicides applied to	o this barley field		ſ	0805	
•					YES = 1		
					<u>-</u>		
				1 By deliberately going to the field specifically for scouting			
8.	In 2011, he	ow was this field	i	activities [Enter code 1 and go to item 9.]		COL	)E
		scouted for inse		2 By conducting general observations while performing	l [	0808	, <u> </u>
		seases, and/or b	eneficial 	routine tasks [Enter code 2 and go to item 11.]	l	0000	
	organisms	5 f		3 This field was not scouted. [Enter code 3 and go to item 16.]			
				[	J		
^	147		. , .		Г.	2000	
9.				ematic sampling, recording counts, etc.) used	YES = 1	0809	
	OI WEIG III	sect traps useu	iii diis licid :		0 _ 1		
10	Was scout	ting for poets do	one in this field du	le to			
10.	1143 300U	ang ioi pesis de	in and new at		Г	0810	1
	a. a pest	advisory warning	?		YES = 1	JO 10	
	a. a post	aution, waiting			' _		

b. a pest development model?....

11. Was this barley field scouted for	YES = 1	[If YES, ask] What was the infestation level for [column 1]?  1 Worse than normal 2 Normal 3 Less than normal CODE	[If column 1 is Who did the of the sc for [column 1 Operator, partner 2 An employee 3 Farm supply or ch 4 Independent crop or commercial sco	e majority outing nn 1] ? or family member nemical dealer consultant
a. weeds?	0812	0813	0814	
a. weeus:	0815	0816	0817	
b. insects or mites?	0010	0010	0017	
c. diseases?	0818	0819	0820	
<ul> <li>[If scouted by crop consultant or commercial scout, else go to item 13.]</li> <li>12. How much was charged for the scouting se (Include operator, landlord, and contractor costs.)</li> </ul>	rvices for thi	s field?	OLLARS & CENTS PER ACRE OR 321	TOTAL DOLLARS
				OFFICE USE
a. [If scouting performed at no cost, explain: _			J	0333
				CODE
13. Were written or electronic records kept for to or numbers of weeds, insects or diseases?	this field to ti	rack the activity	YES = 1	0823
14. Were scouting data compared to published to determine when to take measures to man				0824
to doto.iiiiio wiioii to take iiiododioo to iiidi	iago pooto iii	uno noidi		

16. Did you do any of the following other types of pest management 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?	VES	= 1	0851
	I.	Adjust row spacing, plant density or row directions?			0852
	١.	Adjust fow spacing, plant density of fow directions :		- '	
	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
	0.	Maintain buffer strips or border rows to isolate organic barley from non-organic crops or land, or did you take a buffer harvest?	YES	= 1	0856
	p.	Use a flamer to kill weeds?			0857
	q.	Plant earlier or later to avoid weeds?	YES	= 1	0865
				'	CODE
17.		re any beneficial organisms (insects, nematodes, fungi) applied released in this field to manage pests?	YES	= 1	0853
18.		re floral lures, attractants, repellants, pheromone traps or other logical pest controls used on this field?	YES	= 1	0858
	a.	[If item 17 or item 18 is YES, ask]			
		What were the TOTAL materials and application costs for all biological pest controls for this field? (Include	DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
			0859 ·		0860

				CODE
				0863
19.	Was	a trap crop (excluding fallow) grown to help manage insec	ets in this field? YES = 1	
				0864
20.	was	this field left fallow in 2010 to help manage insects on th	is field? YES = 1	
21.		e water management practices such as irrigation schedul		
		nage, or treatment of retention water used on this field to exin-producing fungi and bacteria?		0861
	OI to	Ann-producing lungi and bacteria:	123-1	
22.		protection of beneficial organisms a factor in your pest on his field?	control decisions	CODE
	101 t	ins neid:		0862
	ПΥ	ES – [Enter code 1 and continue]	23]	0802
	ш.		20]	
				0866
	a. I	Did you change timing of, reduce application rate of, or elimina	ate a nesticide application? VES = 1	
	u	sid you onlying thrining of, reduce application rate of, or eliminate	ate a pestione application : TES - 1	0867
	b. [	Did you change to an alternative pesticide, biocontrol, or non-	pesticide practice? YES = 1	
		, and a second of the second o		
				0868
23.	Did :	you cultivate this field for weed control?	YES = 1	
				NUMBER
	a. [	If yes, ask]		0869
	ŀ	How many times?		
PE:	ST M	ANAGEMENT INFORMATION		
24	[Sho	w Pest Management Information Sources Code List from Res	enondent Rooklet 1	
۷٦.	-	ch outside sources of information on pest management p	•	
	were	e used for the 2011 barley crop?	ractices and products	
	[Star	ting with the most influential in determining the pest manager	nent practices used	
		is operation, enter codes for up to three sources.]		
	DE/	OT MANAGEMENT INFORMATION COURSES CORE LIGH		
		ST MANAGEMENT INFORMATION SOURCES CODE LIST		[Enter up to 3 source codes.]
	1	County, Cooperative, or University Extension Advisor,		Source codes.j
	,	Publications or Demonstrations		FIRST
	_	Farm Supply or Chemical Dealer		0826
	3	3		
	4	Independent Crop Consultant or Pest Control Advisor/Custom Applicator		
	5			SECOND
	6			0827
	7			
	'	(DTN, Internet, World Wide Web, etc.)		
	8	Employee Pest Advisor		THIRD
	9	Other – [Specify:]		0828
	10	None – Operator used no <b>outside</b> information source		

Completion Code for Pest Management Data				
1 Incomplete/Refusal	0340			

1.	Now I need to list all tractors used to
	produce barley on the selected field.

CHE	CK LIST
Include	Exclude
Tractors owned, rented, leased or borrowed	Tractors provided by custom operators

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

2. <b>W</b>	Vas a self∙	-propelled	d combine and	l/or swather	used to	harvest the	barley field?
-------------	-------------	------------	---------------	--------------	---------	-------------	---------------

Ш	YES − [Continue]		
		١	/EAR
a.	What is the model year of the self-propelled harvester(s) used to harvest barley from this field? (Report the average year if more than one was used.)	0830	
		١	/EAR
b.	What is the model year of the self-propelled swather(s) used in preparing to harvest barley from this field? (Report the average year if more than one was used.)	0831	
		C	CODE
C.	Did you use a defoliant in place of a swather in preparing to harvest the barley from this field?	0832	

# 3. Including custom operations, I need to list field work performed by machines on this field for the 2011 barley 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 2010, list operations starting with fall 2009];
- ► 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

CHECK LIST
1
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

2	3	4	5		[ IF CUSTOM (column 5 = code 6 ), skip columns 6-10 ]				
				6	7	8	9	10	
SEGUEZCE	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	0427	0429	
0431		0432	0433	0434	0435	0436	0437	0439	
0441		0442	0443	0444	0445	0446	0447	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	0486	0487	0489	
0491		0492	0493	0494	0495	0496	0497	0499	
0501		0502	0503	0504	0505	0506	0507	0509	
0511		0512	0513	0514	0515	0516	0517	0519	
0521		0522	0523	0524	0525	0526	0527	0529	

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

OFFICE USE

0032		

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 2011 barley crop.

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

	How many hou	1 How many hours did (type of worker) spend on this field					
	a.	b.	C.				
	scouting for weeds, insects and diseases?	irrigating?	performing other work by hand?				
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 (Exclude custom and contract labor)	1110	1111	1112				
Paid full-time workers (Exclude custom and contract labor)	1113	1114	1115				

		PER HOUR
5.	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
6.	What was the average hourly wage rate paid to full-time hired workers?  (Exclude custom and contract workers, payroll taxes and benefits.)	· <u> </u>
	r	CODE
7.	Was any contract labor used on this field? YES = 1	1116
	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.)	1117 - <u> </u>
8.	What percent of the total number of unpaid hours worked on this field was performed by	PERCENT
	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

**DOLLARS & CENTS** 

9. Now I need some information on how much was spent (or will be spent) for custom services used on this field for the 2011 barley crop.

		CUSTOM SERVICE  Which of the following services were performed for the 2011 barley crop on this field?	and how fo this	Including erator, landlord, contractor costs, much was spent or [column 1] on field for the 2011 barley crop?
✓	<del>(</del>	- [Check box for each service performed; refer to item 3 if necessary.]	DO	LLARS & CENTS 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)		· <u> </u>
	b.	Custom cultivating	1122	· <u> </u>
	C.	Custom planting and/or reseeding	1123	· <u> </u>
			1124	
ш		Custom harvesting	1126	· <u> </u>
	О.	(Dollars & cents per unit x Total units hauled from field + Acres harvested in field = Dollars & cents per acre)		
ш	f.	Custom harvesting and hauling from field to storage or point of first sale	1127	· <u> </u>
П		(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	· <u> </u>
П	J	(Dollars & cents per unit x Total units hauled from field ÷ Acres harvested in field = Dollars & cents per acre)		_
10.		d you hire any technical or consultant services to make recommendations uch as for nutrient, pest control, irrigation, or precision farming) for this field?  YES – [Continue] NO – [Go to item 12]		
	Wh	nich of the following services did you obtain?		<b>CODE</b> 1129
	a.	Nutrient recommendations/management service?	'ES = 1	1123
	b.	Soil or tissue sample collection?	/EQ - 1	1130
	U.	Join of dissue sample conections.	L3 - 1	1131
	C.	Pest control recommendations/management service?	'ES = 1	1100
	d.	Pest scouting?	'ES = 1	1132
	e.	Irrigation management service (i.e. irrigation scheduling)?	/ES = 1	1133
	0.			1134
	f.	Yield map or remote sensing map development/interpretation?	'ES = 1	1135
	g.	Other custom or technical service? [Specify: ] Y	'ES = 1	1100
11.	sei soil	TES to any of these services, what was the cost for all of these rvices? (Include operator, landlord, and contractor costs. Exclude cost of /tissue tests or scouting cost reported earlier. Do not report costs for any of these vices if they were previously reported as part of the costs of materials and/or application.)		TOTAL DOLLARS

					CODE
12.			nitor on the equipment used to harvest	YES = 1	1138
	[ <i>If</i> }	'ES, continue; else go to item 13]			
	a.	Was there (or will there be) a yield r	map produced from this harvest	YES = 1	1139
	b.	Did you use the yield monitor inform		ļ	
	υ.	Did you doe the yield monitor imorn	audi to		1140
		(i) monitor crop moisture content to	o determine need for crop drying?	YES = 1	1141
		(ii) add/improve tile drainage?		YES = 1	1141
		(iii) add/impaga, a imigation aguinga	ot / imigation water application?		1142
		(iv) conduct in-field experiments (e.g.	nt / irrigation water application?	YES = 1	1143
			es, etc.)?	YES = 1	
		(v) negotiate new cron leases?		VEC - 1	1144
		(vi) document yields for crop insura		123 - 1	1145
		program purposes?		YES = 1	
		(vii) accurately divide crop production	n among partners and/or for	YES = 1	1146
		·			1147
		(viii) other uses [specify:	]	YES = 1	
13.			bal Positioning System) device used to produce		1148
			nitrate levels, PH, soil type, etc.) of this field?	YES = 1	
	a.	[If YES, ask] Was the information	soil tests from this field?     a machine that measured electrical conductivity		1149
		collected above based on	of the soil in this field (e.g. Veris machine)?  3 other? [Specify:]		1140
14.		you have an airplane or satellite			1151
			ng the 2011 growing season?	YES = 1	
15.		s a variable rate applicator used o			1152
	a.	• •		YES = 1	
		(i) [If YES, ask]	Cantag for		1153
		Did you use a variable rate app  (1) nitrogen applications?	ilicator tor	YES = 1	1100
		(1) Thu ogoti apphoadono::::::			1154
		(2) phosphorus applications?		YES = 1	1155
		(3) notash applications?		YES = 1	1155
		(b) potasii applications:			1156
		(4) lime applications?		YES = 1	4457
		.,			1157
		(5) manure applications?		YES = 1 YES = 1	1157
	b.	(5) manure applications?			1158
	b. c.	(5) manure applications?		YES = 1	
16.	C.	(5) manure applications?		YES = 1 YES = 1	1158

## **NOTES**

G IRRIGATION G

		ACRES	
1.	How many acres in this field were irrigated for the 2011 barley crop?	1160	
	[If none, go to Section H]	<u>-</u> -	

2. Now, I have some questions about irrigation systems and water used on this field for the 2011 barley crop.

	<u> </u>	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.]	TYPE	1161	1175
		INCHES PER ACRE	1162	1176
b.	What was the total quantity of water applied to this field during the entire growing season? ( <i>Include ALL water used from both on-farm and off-farm sources.</i> )	OR TOTAL ACRE-FEET	1163	1177
	[If operator cannot provide item 2b, ask (i) & (ii), else go to 2c]			
	(i) What is the <b>total</b> number of <b>hours</b> this system was used to apply water to this field during the barley 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 barley growing season using this system? ( <i>Include</i> any pre-plant irrig	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 2011 growing season? ( <i>Exclude this field.</i> )	ACRES	1174	1188

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

			CODE
4.		<b>YES</b> – [Enter code 1 and continue.] (Include landlord's share and purchases from all sources.)	1191
			PERCENT
			1192
	a.	What percent of the water used on this field was purchased?	
	<b>L</b>	DOLLARS & CENTS  Whet was the total cost for the water numbered for this field PER ACRE O	R TOTAL DOLLARS
	b.	What was the total cost for the water purchased for this field during the 2011 growing season? ( <i>Include operator, landlord, and</i>	1194
		contractor costs and ditch maintenance costs for this field.)	1101
			TOTAL DOLLARS
5.	[ <i>If</i> S	SIPHON TUBES were used (item 2a = 10 or 11), ask]	1201
	-	at would be the total cost to replace all the siphon tubes used on this field?	
6.	[If F	POLY PIPE system was used (item 2a = 14) ask]	TOTAL DOLLARS
	-	at was the total amount spent for poly pipe used on this field during the	1202
		If growing season? (Include operator, landlord, and contractor costs.)	1202
		Transition of the state of the	•
7.	[If C	GATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
٠.	[,, ]	The bystem was assa (Rem 2a 10 of 10), ask ]	1203
	a.	What was the average diameter of gated pipe used to irrigate this field?	
	a.	withat was the average diameter of gated pipe used to imgate this held!	
			FEET
			1204
	b.	What was the total length of gated pipe used?	
			CODE
8.	We	re wells used to supply irrigation water for this field?	1205
		YES – [Enter code 1 and continue]	
			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?	
		<b>S</b>	
	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? YES =	:1
	^	Wors other fields irrigated using water numbed from wells that supplied	
	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]	• • [
			ACRES
	f.	Excluding this field, how many other acres on this operation were irrigated	1211
		using the same wells during the 2011 growing season?	

9.		s any additional mainline or lateral pipe used to carry water from the source to the stem in this field? (Include underground pipe. Exclude any system pipe within the selected field.)	
		YES − [Continue]	
			INCHES
	a.	What was the average diameter ( <i>in inches</i> ) of the most common type of this additional pipe used?	1212
			FEET
			1213
	b.	How many feet of this additional pipe were used to bring water to this field?	

H MANAGEMENT H

1.		esponse to higher or more volatile fuel prices during the 2011 crop year barley, did you				
	a.	CODE				
	٠	reduce the number of field operations such as tillage, cultivation, or nutrient and pesticide applications on this field (i.e., compared to what you would have	1220			
		otherwise applied)?				
	b.	reduce the amount of irrigation water on this field (i.e., compared to what you	1222			
		would have otherwise applied)?YES = 1				
			1223			
	C.	change other production practices on this field? [If yes, specify:] YES = 1	1223			
	٥.	j				
2.	In r	esponse to higher or more volatile fertilizer prices during the 2011 crop year				
	for barley, did you					
	a.	reduce the application rate of commercial nitrogen fertilizer on this field	1224			
		(i.e., compared to what you would have otherwise applied)? YES = 1				
		(i) [If YES, ask]	PERCENT			
		By what percent did you reduce the amount of commercial	1225			
		nitrogen fertilizer applied for 2011?	1223			
			CODE			
	b.	change the type of commercial nitrogen fertilizer products applied on this field	1226			
		(i.e., compared to what you would have otherwise applied)?  [e.g. less anhydrous ammonia and more UAN]	1226			
		[e.g. less arinyurous animorila and more OAN]				
	C.	increase the application rate of manure or other organic fertilizers on this field	1227			
		(i.e., compared to what you would have otherwise applied)? YES = 1				
	d.	manage fertilizer more closely, with such practices as soil testing, split applications,				
	u.	variable rate applications, or soil incorporation on this field ( <i>i.e.</i> , compared to what	1228			
		you would have otherwise done)? YES = 1				

## **CONCLUSION**

LC	CATION OF SELECTED FIELD			
1.	I need to locate the selected field of barley on this map.	COUNTY NA		OFFICE USE COUNTY FIPS CODE
	What county is the selected barley field in?			0010
	Field description			
FC	OR STATES WITH GPS UNITS ONLY	LATITUDE	LON	GITUDE
	Field location		<b>W</b> 0055	
2.	[ENUMERATOR ACTION: Mark map to indicate where the Be sure the "X" marked on m	he selected barley field i		
3.	We will need additional information to complete this s or March 2012 to collect it. I'll call you then to set up a			
4.	To receive the complete results of this survey on the			CODE
	www.nass.usda.gov/results/. Would you rather have a mailed to you at a later date?		YES = 1	0099
				нн мм
5.	ENDING TIME [MILITARY]			0005
RF	CORDS USE			
6.	[Did respondent use farm/ranch records to report]			CODE
	The stiffence of the O			0011
	a. [fertilizer data?]		YES = 1	0012
	b. [pesticide data?]		YES = 1	
	c. [majority of this <b>expense</b> data?]		YES = 1	0013
				NUMBER
SU	IPPLEMENTS USED		FERTILIZER APPLICATIONS	0041
7.	[Record the total number of each type of supplement used to complete this interview.]		PESTICIDE APPLICATIONS	0042
			FIELD OPERATIONS	0043
Re	eported by:	Telephone: (	)	

	Office Use										
Response		Respondent		Mode		Enum	Eval.	R. Unit	Date	Optional	
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	0100	0098	0100	0921	9910	0002	0003
S/E Name									•	•	