

# AGRICULTURAL RESOURCE MANAGEMENT SURVEY BARLEY PRODUCTION PRACTICES and COSTS REPORT for 2003

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

U.S. Department of Agriculture Rm 5805, South Building 1400 Independence Avenue, S.W. Washington, D.C. 20250-2000 202-720-7017

VERSION	ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE
2		01		0	000	00

RS:		CC	ONTACT RECORD	] [
NOMIC RESEARCH SERVICE	DATE	TIME	NOTES	
				] <u> </u>

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

#### INTRODUCTION

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

We are collecting information on practices and costs to produce 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. Response to this survey is confidential and voluntary.

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

	HHMM
BEGINNING TIME [MILITARY]	
[WILLIANT]	

SC	REENING BOX
0006	

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

OFFICE USE

Completion Code 3 = ZERO TARGET

		•	 	
Ē	8000			

[Name, address and partners verified and updated if necessary.]							
PARTNERS:		POID	)			POID	)
PARTNER NAME				PARTNER NAME			
ADDRESS				ADDRESS			
CITY	STATE	ZIP	PHONE NUMBER	CITY	STATE	ZIP	PHONE NUMBER
		POID	)			POID	)
		POIE	)			POID	)
PARTNER NAME		POIC	)	PARTNER NAME		POID	)
PARTNER NAME ADDRESS		POIC	)	PARTNER NAME ADDRESS		POID	)

### BARLEY FIELD SELECTION

1.	How many acres of barley (feed, seed or malt) did this for the 2003 crop year? (Exclude acres planted only for cover of the If no acres planted, review Screening Survey Information Form Make notes, then go to item 4 on back page.  For winter barley, record acres planted in fall/winter 2002 for 2	rop or to be grazed.) n.	TOTAL PLANTED ACRES  0050  •
	Of the total barley acres (item 1), how many were plan	ted for	TOTAL ACRES
	a. feed barley?		0051 0052
	b. malt barley?		
2.	How many of the total [item 1] barley acres were	ACRES	
	a. owned by this operation?	0044	•
	b. rented for CASH with the payment being a fixed cash	0045	•
	c. rented for CASH with the payment being a flexible case (Rent paid depends on prices and/or yields, or is otherwise not a fix	sh amount? 0046	•
	d. rented for a SHARE of the crop?	0047	•
	e. rented for some combination of CASH and SHARE of	f the crop?	•
	f. used rent FREE?	0049	•
		[Total must equal	item 1.]
3.	I will follow a simple procedure to make a random selection barley fields planted for the 2003 crop.	on from the	
	What is the TOTAL number of barley fields that were planted on this operation?  (Exclude fields planted only for cover crop or to be grazed.)		TOTAL NUMBER OF FIELDS PLANTED
			[If only 1 field, enter 1 and go to item 5.]
	Please list these fields according to identifying name/each field. Then I will tell you which field has been se  [If there are more than 18 fields make sure item 3 is TOTAL field and list only the 18 fields closest to the operator's perma  If respondent is unable to identify or describe the fields, use the tell NAME, NUMBER OR DESCRIPTION	elected. ields planted, nent residence.	DESCRIPTION
1		10	
2		11	
3_		12	
4		13	
5		14	
6		15	
7		16	
8		<u>17</u>	
a		10	

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

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

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

OFFICE USE OY/CEAP Field Substituted

0022

### FIELD CHARACTERISTICS---SELECTED FIELD

В	B FIELD CHARACTERISTICSSELECTED FIELD					
1.		w many acres of barley did this open his field for the 2003 crop? (Exclude acres planted only for cover crop or to	•			ACRES
	a.	Was this field planted for 2 N	1alt · · · · · · · ·			1428
2.	We	re the acres in this field 2 rented re	I for CASH with the I SHARE of the crop	payment being a fixed c payment being a flexible ? ion of CASH and SHAR	cash amount?	<b>CODE</b> 1302
3.	Γ <i>If f</i>	ield is CASH RENTED (item 2 = 2, 3 o	r 5) ask-1			DOLLARS & CENTS PER ACRE
J.	Wh	at was the cash rent paid per acre for	or this 2003 ba	ley crop?		1303 • <u> </u>
4.		ield is SHARE RENTED (item $2 = 4$ or at was the landlord's share of the contact $\frac{1}{2}$		eld?		PERCENT 1304
						YEAR
7.	Wh	at year did you (the operator listed or	n the label) <b>start</b>	operating this fiel	d?	1307
			,			MM DD YY
8.	On	what date was this field planted? .				1308
					UNITS PER ACRE	UNIT CODES for Seeding Rate 1=POUNDS 2=CWT 4=BUSHELS 23=50 LB BAGS
10.	Wh firs	at was the seeding rate per acre the time this field was planted?			310 •	1311
11.	Ho	w many acres in this field had to be (Number of acres times the number of times rep	replanted to ba	ırley?		1318 •
12.	Wa	s the source of the barley seed		<ul><li>1 Purchased?</li><li>2 Homegrown or tract</li><li>3 Both?</li></ul>		CODE 1319
	a.	[If item 12 = 2 or 3, ask]				
		How much of the barley seed planted (or received in trade) by this operation				PERCENT 1320
						DOLLARS & CENTS PER BUSHEL
		(1) What was the cost per bushel for	cleaning and tre	ating this seed?		1321
	b.	What type of barley variety was plante majority of this field?		1 Six-row 2 Two-row 3 Specialty		CODE 1322
	C.	Seed varieties offer several benefits.  Did you ( <i>the operator</i> ) choose the barley variety used on this field primarily for	1 Increase yield 2 Enhanced pro 3 Disease resist 4 Insect resistar 5 Drought resist 6 Malting quality	tein content? ance? ace? ance? ??	ons	<b>CODE</b> 1323
			7 Not Chosen for	or any of the above reas		-

### FIELD CHARACTERISTICS---SELECTED FIELD

W	any seed purchased (item 12 = 1 or 3), ask]  hat was the total cost per unit (including both your andlord's share) of purchased seed for this field?  (Include cost of seed treatment.)	DOLLARS & CENTS PER UNIT  1429	UNIT CODE 1=POUNDS 2=CWT 4=BUSHEL 22=ACRE 23=50 LB BAGS	
				CODE
21. <b>Ha</b>	as harvest of this field been completed?		YES = 1	1343
22. <b>N</b> o	ow I need information about the acres harvested (c	or to be harvested	) and the yields fro	om this field.
	low many acres in the barley field vere (will be)	I	What yield per acre did you get (do you expect to get) for	UNIT CODES 1=POUNDS 2=CWT 3=TONS 4=BUSHELS
		ACRES	UNITS PER ACRE	UNIT CODES
а	. harvested for grain?	•	•	1340
b	. harvested for hay, silage, or green chop?	1349	1350	TONS
C		1351		
			-	
		-		CODE 1354 ACRES 1355
	ow many acres of barley straw were harvested from How many tons of barley straw were harvested from			TOTAL TONS
a.	,	÷ 2000 = _		1356
	Tons per Acre Acres Total Tons Bales Lbs p	er Bale Lbs per Ton	Total Tons	
b.	Of the total barley straw harvested from this field (ite what was the landlord's share of the barley straw?.	em 24a), 	<b>PERCENT OR</b> 1357	<b>TONS</b> 1358
C.	What was the total cost of baler twine/wire used to barley straw from this field? ( <i>Include</i> landlord's share.) .	ale the		TOTAL DOLLARS
d.	[If any barley straw was sold, ask-]			DOLLARS & CENTS PER TON
	What was the price received per ton for all barley str	aw (item 24a) sold	I from this field?	1360

			1	Cattle			CODE
25.	Wh BE	at type of livestock grazed this barley field FORE barley harvest?	2 3 4	Sheep Other, specify _ Livestock did N			1361
				barley field – G			
						_	HEAD
	a.	Regardless of ownership, about how many <b>head</b> of grazed this 2003 barley crop	of ( <i>ll</i>	ivestock, iten	n 25) 		1362
						•	DAYS
	b.	How many days did these livestock graze on this	200	3 barley crop	p?		1363
	_	[If the cost of NOT owned by this on evotor ground of	n 46	ofield selv 1	I DOLLARS & CENTS	2	
	C.	[If livestock NOT owned by this operator grazed or	rı trii	s iieia, ask–j	PER ACRE	OF	TOTAL DOLLARS
		What is the total dollar amount received from othe livestock grazing on this field? ( <i>Include landlord's sha</i> .			1364	_	1365

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

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

What crop was PLANTED	Was this crop irrigated?	Was this crop no-tilled ? 1/		
	CROP NAME	CROP CODE	YES = 1	YES = 1
a. <b>FALL</b> of 2002?		1366	1367	1368
b. <b>SPRING/SUMMER</b> of 2002? .		1369	1370	1371
c. <b>FALL</b> of 2001?		1372	1373	1374
d. SPRING/SUMMER of 2001? .		1375	1376	1377
e. <b>FALL</b> of 2000?		1378	1379	1380
f. SPRING/SUMMER of 2000? .		1381	1382	1383

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

### FIELD CHARACTERISTICS---SELECTED FIELD

27. In 2003, did your land-use practices for this field include	CODE	In what year were the (column 1) established in this field?	[If (column 1) were established before operator began operating this field, enter code 1.]	In 2003, did (or will) the federal or State government pay an annual rental payment for keeping this conservation practice in place? [YES=1]
a. terraces? YES = 1	1384	1385	1386	
b. temporary or permanent levees? . YES = 1	1388	1389	1390	
c. grassed waterways? YES = 1	1392	1393	1394	1395
d. filter strips or riparian buffers on or adjoining the field? YES = 1	1396	1397	1398	1399
e. contour farming? YES = 1	1400			
f. strip cropping? YES = 1	1401			
g. underground outlets such as tile drainage? YES = 1	1402			
h. other drainage channels or diversions? YES = 1	1403			
				CODE
28. Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "High		ble"?	YES =	1404 1
29. Have you been notified by NRCS that this field	contains	s a wetland?	YES =	1405 1
30. In 2003, did you receive technical assistance fo	or plannii	ng, installing,		
maintaining, or using conservation practices o (Include grassed waterways and filter strips or riparian bu Include assistance from any source whether paid for or from	r system	s on this field?	YES =	1406 1
31. In 2003, did you (or will you) receive cost-sharin				•
conservation practices on this field [Be sure to or riparian buffers on or adjoining this field.]?  (Include payments received from any source by either the Exclude rental payments for keeping the land in these practices.	e owner or c	operator.		1407

1426

### FIELD CHARACTERISTICS---SELECTED FIELD

	Iring 2003, did any written plan of the following types cover this field and so, in what year was the plan implemented?  (A "written plan" is a plan prepared in accordance with Federal, State, or district standards.)	CODE	YEAR IMPLEMENTED
	(1. William plant to a plant propared in accordance with reactial, etaio, or alculot diametrac.)	1408	1409
a.	Conservation plan specifying practices to reduce soil erosion? YES =		
b.	Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? YES =	1410 <b>1</b>	1411
C.	Nutrient management plan specifying practices for land application of manure only? YES =	1412 <b>1</b>	1413
d.	Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? YES =	1414 <b>1</b>	1415
e.	Irrigation water management plan specifying practices for applying or conserving irrigation water? YES =	1416 <b>1</b>	1417
a.	[If YES, ask-] What was the cost for develping this plan for this field?  (Include landlord's/contractor's share.  Exclude cost of construction or materials.)  DOLLARS PER A  1419		OR TOTAL DOLLARS
	(Include landlord's/contractor's share.  Exclude cost of construction or materials.)	·	1420
4. <b>W</b> a	as the barley crop on this field covered by Crop Insurance in 2003?		CODE
	YES - [Enter code 1 and continue.]	YES	i = 1 1421
	NO - [Go to Section C.]		
lf \	YES, which coverages did you obtain? [Enter code for all that apply.]		
a.	Basic catastrophic insurance (Federal CAT) bought for a flat fee and protects against crop loss greater than 50% of average yield, at 55% of the	orice YES	1422 <b>S = 1</b>
b.	<b>Buy-up on Basic Federal CAT</b> for higher levels of yield and price protection (such as 65% of yield and 100% price, multi peril crop insurance)	n <b>YES</b>	1423 = <b>1</b>
C.	Revenue insurance include Income Protection (IP), Crop Revenue Coverage (CRC), and Revenue Assurance (RA)	YES	1424 <b>6 = 1</b>
d.	Other Federal Crop insurance (Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.)	YES	1425 = <b>1</b>
			1

e. Other Private Crop insurance
(Hail, wind, freeze, etc.) . . . . . . YES = 1

$\sim$	FERTILIZER and NUTRIENT APPLICATIONSSELECTED FIELD	
<b>U</b>	FERTILIZER AND INCIRIENT APPLICATIONSSELECTED FIELD	C

1.	Were co	mmercial	FEDTII	IZERS ann	lied to this	s field for the 2	2003		CODE		EDIT TABLE
		op?		арр			YES = 1	202		020	1
				applied, col	ntinue, else	e go to item 5.]					
											NUMBER
3.	How mai	ny comm de applicatio	ercial fe ons made	ertilizer app by airplanes ar	lications value of commercial	were made to to a applicators)	his field for	the 2	003 crop	<b>)?</b>   0203	3
4.	Now I ne	ed to rec	ord info	rmation fo	r each app	olication.					
				CHECK I	LIST			ļ			
	Custom	INCLUI			☐ Micronu	EXCLUDE		ł			
H		applied fe applied ir		of		essed manure			T-TY	PE	TABLE
	2002 and	d those ap	plied ea	arlier if	Fertilize	er applied to pre	evious	İ	2		001
		was fallov cially prep				n this field nd Gypsum		LINE	OFFICE		0213
								99	LINES IN	IABLE	
		2 →	<b>→</b>	3	4	5		6			7
			<b>→</b>								
	MATE	ERIALS U	SED	What quantity	[Enter material code.]	When was this applied?	How v	vas th	is applie	d?	How many acres were
	[Enter pe	rcentage and	alysis or	was	-	1 Broado			vithout inco		
	actual pou apr	ınds of plant olied per acre	<i>nutrient</i> s e.1	applied per acre?	1 Pounds	Before seeding	2 Broadcast, g 3 Broadcast, b		vitri iricorpe	лаиоп	in this applica-
	[Show Co	ommon Ferti ondent Bool	ilizers in	[Leave this		2 In the spring Before seeding	4 In seed furro 5 In irrigation v				tion?
L I	71000	The control of the co		column blank if actual	19 Pounds		6 Chisel, injecte	ed or knif			
Ν	N	P <sub>2</sub> O <sub>5</sub>	K₂O	nutrients were	nutrients	3 At seeding	7 Banded/Side			row	
Е	Nitrogen	Phosphate	Potash	reported.]		4 After seeding	8 Foliar or dire	cted spi	ay		ACRES
01	0205	0206	0207	0208	0209	0210	0211				0212
02	0205	0206	0207	0208	0209	0210	0211				0212
03	0205	0206	0207	0208	0209	0210	0211				0212
04	0205	0206	0207	0208	0209	0210	0211				0212
05	0205	0206	0207	0208	0209	0210	0211				0212
06	0205	0206	0207	0208	0209	0210	0211				0212
07	0205	0206	0207	0208	0209	0210	0211				0212
08	0205	0206	0207	0208	0209	0210	0211				0212
								<u> </u>	T-TYPE 0	TABLI 000	E LINE 00
								<u> </u>	<u> </u>		CODE
5.	Was sulf	ur applie	d to this	s field for the	ne 2003 ba	arley crop? conent of a fertilize	applications \		YES	0216	6
	•	lfur applie		• •	.54 45 4 66/11/	CONTOUR OF A 16 MILEO	арриоционо.)		123		JNDS PER ACRE
	•	• •	•			_				0217	
	How	many pou	ınds of s	sulfur were a	applied per	acre?					•
										0218	CODE
6.	Was gvp	sum app	lied to t	his field for	r the 2003	barley crop?			YES		

С	FERTILIZER and NUTRIENT APPLICATION	ONS	SELECT	(FD	) FIFI [	) <b>C</b>
_			T-TYPE 0		ABLE 000	LINE 00
7.	Were any fertilizers applied by custom applicators?  ☐ YES - [Continue.] ☐ NO - [Go to item 8.]	,				
	a. Are you able to report the cost of fertilizer materials and				0215	ICE USE
	custom application separately?   NO - [Go to item 8.]				0210	
	b. Excluding the cost of the fertilizer materials, how much was spent for custom application of fertilizers on this field?  (Include landlord and contractor costs.		& CENTS ACRE	OR	TOTAL	. DOLLARS
	Exclude custom application of lime, gypsum & purchased manure.) [If material and application costs can't be separated, exclude them here and record the total in item 8.)	0219	•		0220	
0	What was the TOTAL COST of all fortilizer was directed	PER	& CENTS ACRE	OR		. DOLLARS
8.	What was the TOTAL COST of all fertilizer products applied to this field?	0221	•		0222	
	(Include landlord and contractor costs.  Exclude lime, gypsum and purchased manure.  If custom applied, include the cost of materials ONLY,  unless materials and application costs cannot be separated.  Include materials applied to this field if it was fallow in 2002.)				RUSH	ELS PER
				i	Δ	ACRE
9.	What was your yield goal for this field?				0223	•
					C	CODE
10.	Was a soil test for phosphorus performed on this barley field in 2002 or 2003 for the 2003 crop?		YES	S = 1	0225	
	a. [If phosphorus test done, ask]			,	POUNDS	S PER ACRE
	How many pounds of phosphorus (per acre) were recommended to the phosphorus to 2				0226	
	(by the phosphorus test)?					

field in 2002 or 2003 for the 2003 crop? ......YES = 1

in 2002 or 2003 for the 2003 barley crop? ..... YES = 1

11. Was a soil test for nitrogen performed on this barley

12. Was a plant tissue test for nutrient deficiency performed on this field

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

CODE

**POUNDS PER ACRE** 

0227

13.	[If s	soil or plant tissue test done,	ask, else go to item 14.]	DOLLARS & (		OR	ТОТА	L DOLLARS
			e soil and plant tissue tests and contractor costs.]	0230	•		0231	
			Soil/plant tissue test provided free of charge by dealer, crop consultant, or exten			[		CODE
	a.	If tests were done at no cost explain	Soil/plant tissue test costs were included in total fertilizer costs reported in item				0232	
			3 Some other reason					
14.	Îf n	numerator Action: Refer to a itrogen (N) was applied, com IO nitrogen applied, go to iter						
15.		s the amount of nitrogen yapply to this field based on [Enter code for all that apply	_					
						ſ		CODE
	a.	Regulte of a goil or plant ties	ue test?		VI	EQ _ 1	0233	
	a.	·					0234	
	b.	Crop consultant recommend	lation?		YI	ES = 1	0005	
	c.	Fertilizer dealer recommend	ation?		YI	ES = 1	0235	
	d.	Extension Service recomme	ndation?		YI	ES = 1	0236	
	e.	Cost of nitrogen and/or expe	ected commodity price?		YI	ES = 1	0237	
	f.	Contractor recommendation	?		YI	ES = 1	0238	
	g.	Routine practice (operator's	own determination based on				0239	
		past experience, yield goal,	etc.)?		YI	ES = 1		
16.	Wh	at share of the commercial	nitrogen fertilizer applied to this f	ield			PI	ERCENT
			t or otherwise pre-purchased at a to January 1, 2003?				0240	
	pic	determined price set prior	1, 2000:			[		CODE
17.	Did	l you use any product to slo (For example a nitrification inhibitor	ow the breakdown of nitrogen on t such as N-Serve or a urease inhibitor such as	his field? s Agrotain)	YE	S = 1	0241	
						[		CODE
18.	ls I	ime ever applied to this fiel	d?		YI	ES = 1	0242	
	a.	[If no lime applied, go to iten	n 10-alsa continua l			ı	,	/EARS
	a.	[II TIO IIITIE applied, go to iter	n 19-eise conunue. <sub>]</sub>				0243	ILANO
		On average, how many yea	rs are there between applications of I	ime to this fi	eld?			
							TONS	PER ACRE
	b.	How many tons of <b>lime</b> were					0244	
		• •	o this field?				<b>-</b>	• <u> </u>
	C.	[If rented, ask] Considering the last time it was	vas applied, what percent of the total	cost		[	0245	ERCENT
			as paid by the landlord(s)?				U <u>24</u> J	

### FERTILIZER and NUTRIENT APPLICATIONS----SELECTED FIELD

9. <b>V</b>	Vas manure applied to the (Exclude commercially prepared)	nis field for the 2003 barley crop?  ared manure.)	CODE
	☐ YES - [Enter code	e 1 and continue.]	0246
	□ NO - [Go to Sec	•	
a		•	0247 •
	·	1 - TONS  CODE UNITS PER ACRE	TOTAL UNITS
b	<ul> <li>What was the amount of applied to this field?</li> </ul>	of manure 2 - GALLONS 0248 0249	0250
	applied to this lield:	3 - BUSHELS AND • OR	MILES
C	c. What is the hauling dis	tance between the manure storage and the manured field?	0251
C		of the manure manure to this field? 3 - BUSHELS CODE  2 - GALLONS 0252 AND	101AL UNITS 0253
e	e. What was the percent of	of manure applied	PERCENT
		anting?	0254
			0255
			0256
	(3) after planting?		100%
		1 Lagoon liquid?	CODE
f.	. Was the manure	2 Slurry liquid?	0257
		3 Semi-dry or dry?	
		1 Broadcast or sprayed without incorporation?	CODE
Q	g. Was the manure	<ul><li>2 Broadcast or sprayed <i>with</i> incorporation?</li><li>3 Injected/knifed in?</li></ul>	0258
		4 Sprayed using irrigation systems?	
h	n. Was the major source	1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep?	<b>CODE</b> 0259
	of the manure from-	<ul> <li>5 Poultry?</li> <li>6 Equine?</li> <li>7 Biosolids (municipal sludge, food waste, etc.)?</li> <li>8 Other (Specify)?</li> </ul>	
		1 Produced on this operation?	CODE
i.	Was the manure	2 Purchased?	0260
		<ul><li>3 Obtained at no cost off this operation?</li><li>4 Obtained with compensation?</li></ul>	

#### FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

20.		ere the manure APPLICATION RATES to this field influenced State or local restrictions?	YES = 1	<b>CODE</b> 0261
	_	[If YES item 20, ask] What basis was used to determine these manure application rate restrictions		
		(1) Nitrogen requirement of the crop?	YES = 1	0262
		(2) Phosphorus requirement of the crop?	YES = 1	0263

#### PESTICIDE APPLICATIONS---SELECTED FIELD

١.	let's list all the chemicals used on this field for the 2003 barley crop.		
		CODE	

[Probe for applications made in the fall of 2002 (and those made earlier if this field was fallow).] [If no pesticides applied, go to Section **E**.]

Include defoliants, fungicides, herbicides, insecticides, growth regulators (neem, Bt, etc.) Include biological/botanical pesticides, microbial agents, miticides, nematicides, rodenticides, and soil fumigants.

| Exclude fertilizers, adjuvants, | (e.g. wetting agents, stickers, | spreaders, etc.), seed treatments.

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

NOTES	LINE	What products were applied to this field? [Show product codes from Respondent Booklet.]	3 Was this product bought in liquid or dry form? [Enter L or D.]	4 Was this part of a tank mix? [If tank mix, enter line number of first product in mix.]	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	6 O How much was applied per acre per application?	R 7 What was the total amount applied per application in this field?	8 [Enter unit code.] 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Liquid Ounces 28 Dry Ounces 30 Grams
	01	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 p LINE	esticides not listed in Respor 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.]

### PESTICIDE APPLICATIONS----SELECTED FIELD

#### **APPLICATION CODES for column 9**

- 1 Broadcast, ground without incorporation
- 2 Broadcast, ground with incorporation 3 Broadcast, by air (Aerial application)
- 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.]

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

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

D

T-TYPE	TABLE	LINE
0	000	00

3.	We	re any ch	emicals or pe	sticides	applied by cu	stom applicators?			
		<b>YES</b> - [C	ontinue.]	□ №	- [Go to item 4	1.]			
									OFFICE USE
	a.		able to report th pplication sepa		r chemical prod	duct and			0324
		☐ YES	- [Continue.]		NO - [Go to ite	em 4.]			
	b.		g the cost of the				DOLLAR & CENTS PER ACRE	OR	TOTAL DOLLARS
		chemical	s and pesticide	s on this	field?		0331		0332
		,	,		,				
							DOLLAR & CENTS PER ACRE	OR	TOTAL DOLLARS
<b>4</b> ).	app		s the TOTAL( is field?			oroducts	1433		0334
		S	operator and landlo surfactants, wetting materials applied be	g agents, gi	rowth regulators, e	s, insecticides, fungicides, and 2 fallow period.		_	
		Exclude s	seed treatments.						
		NOTE 1			ot report TOTA n Pesticide Tab	L COST, itemize co lle, item D1.	st for each product	in	
		NOTE 2				ndent cannot report on costs, report both			!   

NOTES and CALCULATIONS:

Now I have some questions about your pest management decisions and practices used on this field for the 2003 barley crop.

By pests, we mean WEEDS, INSECTS and DISEASES.

T-TYPE	TABLE	LINE
0	000	00

-		
1.	[Enumerator Action: Were PESTICIDE APPLICATIONS reported in Section D?]	
	☐ YES - [Continue.] ☐ NO - [Go to item 10.]	
2.	Was weather data used to assist in determining either the need or when to make pesticide applications?	1600
3.	Were any biological pesticides such as Bt (Bacillus thuringiensis),	1601
4.	Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? YES = 1	1602
5.	[Enumerator Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1, column 2?]	
	☐ YES - [Continue.] ☐ NO - [Go to item 8.]	
6.	Were herbicides applied to this barley field BEFORE weeds emerged?	CODE  1603  CODE
	a. Were the herbicides applied BEFORE weeds emerged on this barley field based primarily on  usually present?  OR  2 weed scouting from the previous year?	1604 CODE
7.	Were herbicides applied to this barley field AFTER weeds emerged?YES = 1	1605
	[If item 7 = YES, ask]  1 routine treatments of what weeds are usually present?	<b>CODE</b> 1607
	a. Were the herbicides applied AFTER weeds emerged on the barley field based primarily on  on  a. Were the herbicides applied AFTER weeds emerged on the barley field based primarily on	
8.	[Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-1999), in Section D, item 1, column 2?]	
	☐ YES - [Continue.] ☐ NO - [Go to item 10.]	
9.	Were the insecticides applied to this barley field based primarily on  1 routine treatments for what insects are usually present?  OR 2 scouting for insect infestation?	1651
10.	In 2003, how was this field primarily scouted for insects, weeds, diseases and/or beneficial organisms—  By conducting general observations while performing routine tasks? (Enter code 1 and go to item 13.)  By deliberately going to the field specifically for scouting activities? (Enter code 2 and go to item 11.)  This field was not scouted. (Enter code 3 and go to item 17.)	<b>CODE</b> 1608
11	Was an actablished accuting present used (automatic servaling	CODE
11.	Was an established scouting process used (systematic sampling, recording counts, etc.) or were insect traps used in this field? YES = 1	1609

<u>E</u>		PEST MANAGE	MENT	PRACTICES-	SELECTED FIELD	<b>E</b>
12.	Wa	s scouting for pests done in this f	ield due	to		CODE
	a.	a pest advisory warning?			YES = 1	1610
	b.	a pest development model?			YES = 1	1611
13	Wa	1 as this barley field scouted for		[If YES, ask] Was the infestation level for [column 1] 1 Worse than normal 2 Normal 3 Less than normal	If column 1 = 1  Who did the majority for [column  1 Operator, partner or 2 An employee 3 Farm supply or chem 4 Independent crop co commercial scout	y of the scouting on 1] family member
			YES = 1	CODE	CODE	<u> </u>
	a.	weeds?	1612	1613	1614	
	b.	insects and mites?	1615	1616	1617	
	υ.		1618	1619	1620	
	C.	diseases?				
16.	a. We act Wa infe	[Note: If scouting performed at no correwritten or electronic records kere written or electronic records kere written data compared to public station thresholds to determine writing pests in this field?	ost, explained for this or diseasished information to take the control of the con	s field to track the ases?	] YES = 1	1624
18.	We	ere the services of a diagnostic lab soil or plant tissue pest analysis fo	oratory ι	used for pest identifi	cation	1626
		ere crop residues plowed down or			age pests? YES = 1	
∠U.		re crops rotated in this field during the purpose of managing pests?			YES = 1	1628
21.		ere ground covers, mulches, or oth intained for this field to manage pe			YES = 1	1629
22.	Wa had	s a seed variety chosen to plant ir d resistance to a specific pest?	this field	d because it	YES = 1	1630
23.	Wa	s no-till or minimum till used to m	anage pe	ests in this field?	YES = 1	
24.	We	ere planting locations planned to a	void infe	station of pests?	YES = 1	
25.	We	re planting or harvesting dates ad	justed fo	r this field to manag	je pests? YES = 1	<b>CODE</b> 1633

Ε		PEST MANAGEMENT PRACTICES	3SELECTED FIEL	D <b>E</b>
31.	Were fic	eld edges, lanes, ditches, roadways or fence lines d, mowed, plowed, or burned to manage pests for this fi	eld? YES = '	1642 1
32.	Were ed	quipment and implements cleaned after completing ork to reduce the spread of pests?	YES = '	1643
PΕ	ST MAN	AGEMENT INFORMATION		
34.	[Show F	Pest Management Information Sources Code List from Respo	ndent Booklet.]	
		outside sources of information on pest management praceducts were used for the 2003 barley crop?	ctices	
		nrting with the most influential in determining the pest managed on this operation, choose up to 3 sources, and enter code(s		
	PE	ST MANAGEMENT INFORMATION SOURCES CODE LIST	Γ	
	1	County, Cooperative, or University Extension Advisor, Publications or Demonstrations		
	2	Farm Supply or Chemical Dealer		[Enter up to 3
	3	Commercial Scouting Service		source codes.] FIRST
	4	Independent Crop Consultant or Pest Control Advisor/Custom Applicator		1646
	5	Other Growers or Producers		SECOND
	6	Producer Associations, Newsletters or Trade Magazines		1647
	7	Electronic Information Services (DTN, Internet, World Wide Web, etc.)		THIRD
	8	Employee Pest Advisor		1648
	9	Other - (Specify:)		
	10	None - Operator used no <b>outside</b> information source		
35	Other ti	nan pesticide applicator training, have you (the operator) a	attended any training	<b>CODE</b> 1649
	session	on pest identification and management since October 1	, 2002? YES = 1	
			Completion Code for F	Post Management Data

Cor	mpletion Code for Pes	t Management Data
1 -	Incomplete/Refusal	0340

NOTES and CALCULATIONS:

				CHECK L		
1.		I need to list all tractors ey on this selected field.	used to produce		Exclude	
	Darie	by on this selected field.		Tractors owned, rented, leased or borrowed	Tractors provid operators	
	1	2	3	4	5	6
		What tractors were used on this field	What was the model year	Is this vehicle a 2 2-wheel drive tractor	What is its PTO	Is it-
			(Example: 2003)	3 2-wheel drive tractor with front wheel assist	horsepower	1 diesel 2 gasoline
			(2/18/17/2007 2000)	4 4-wheel drive tractor 5 crawler or other tracked-tractor 6 other tractor		3 LP gas 9 other
		MAKE and MODEL	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.		a self-propelled harvest YES - [Continue.]	er and/or swathe	er used to harvest the barley from to 3.]		
	a. What is the model year of the self-propelled from this field? (Report the average year if more than			, 1209	AR	
				у		
	Г	[If item 2 = YES, ask-]			·	4 D
	-	•	he self-nronallad s	wather(s) used to harvest barley	<b>YE</b>	AK
				n one was used.)		

#### F

#### FIELD OPERATIONS --- SELECTED FIELD

3.	Including custom operations, I need to list field work performed
	by machines on this field for the 2003
	barley crop. Please

- Begin with the first field operation after harvest of previous crop, (If fallow during 2002, list operations starting with fall 2001.)
- List the operations in order through harvest and hauling of this crop to storage or first point of sale, and
- Maintain the order of tandem hook-ups.

CODES FOR COLUMN 5
1 You (The Operator)?
2 Partner?
3 Unpaid Worker?
4 Paid Part-time or Seasonal Worker?
5 Paid Full-time Worker?
6 Custom Applicator?[Go to Column 11.]

	CHECK LIST
	Include all field work using machines for-
	Land Forming / Levee Building
	Tillage
	Preparing for Irrigation
	Planting
	Fertilizer & Pesticide applications
	Harvesting & Hauling
	to storage or first point of sale
	Exclude
	Lime & Gypsum applications
Ĺ _	

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

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

2/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine, rear mounted blade, and hauling operations, enter TOTAL HOURS, and leave column 10 blank.

$\sim$	 $\sim$	 $\sim$ r
	 ICE	 -

0032

F

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

Please report the paid and unpaid labor that worked on this field to produce the 2003 barley crop.

i	1   How many hours did ( <i>type of worker</i> ) spend on this field					
	- a. scouting for irrigating? drying the harvested crop? bookkeeping and other activities)					
TYPE OF WORKERS	HOURS	HOURS	HOURS	HOURS		
Operator, partners, family members, and other unpaid workers	1100	1101	1102	1103		
Full-time hired workers (Exclude custom and contract labor)	1105	1106	1107	1108		
Part-time or seasonal hired workers (Exclude custom and contract labor)	1110 ]	1111	1112	1113		

		PER HOUR
5.	What was the average hourly wage rate paid to full-time hired workers?  (Exclude custom and contract workers, payroll taxes and benefits.)	1114
		DOLLARS & CENTS PER HOUR
6.	What was the average hourly wage rate paid to part-time or seasonal hired workers?	1115
	(Exclude custom and contract workers, payroll taxes and benefits.)	•
		CODE
_		1116
7.	Was any contract labor used on this field? YES = 1	
		DOLLARS & CENTS PER ACRE
	a. If YES, ask What was the average cost per acre for this contract labor?  (Include landlord and contractor costs.)	1117
		PERCENT
8.	What percent of the total hours worked on this field by UNPAID workers was worked by children under 16 years old?	1118
	was worked by children diden to years old?	

F

Now I need some information on how much was spent for custom services used on this field for the 2003 barley crop.

		CUSTOM SERVICE  Which of these services were done for the 2003 barley crop on this field?	how [ this i	Including ord's/contractor's cost, much was spent for column 1] on field for the 2003 oarley crop?
	✓	[Check ✓ box for each service performed; refer to item F3 if necessary.]		DLLARS & CENTS PER ACRE
		a. custom land preparation, shaping and/or leveling?	1119	•
		b. custom cultivating?	1120	•
		c. custom planting and/or reseeding?	1121	•
		d. custom harvesting?	1122	•
		f. custom hauling to storage or point of first sale?	1126	
		Comparison of the content of the c	1127	•
		h. custom raking, baling, and hauling the barley straw from this field?	1128	•— —
10.	for t	you hire any technical or consultant services to make recommendations this field? (such as for nutrient, pest control, irrigation, or precision farming ommendations)		
		YES - [Continue.] NO - [Go to item 12.]		CODE
		Nutrient recommendations/management service?	YES = 1	1129
	b.	Collect soil or tissue samples?	YES = 1	1130
	C.	Pest control recommendation/management service?	YES = 1	1131
	d.	Pest scouting ?	YES = 1	1132
	e.	Irrigation management service (i.e., irrigation scheduling)?	YES = 1	
	f.	Yield map or remote sensing map development/interpretation?	YES = 1	
	g.	Other custom or technical service (Specify:)	YES = 1	1135
11.	thes	ES to any of these services, what was the cost for all of se services? (Include   landlord/contractor cost.  Exclude cost of soil/tissue tests or scouting costs reported earlier.  Do not report costs for any of these services if they were reported as part of the costs of materials and/or application costs previously.)  DOLLARS and CEN' PER ACRE  1136	TS OR	TOTAL DOLLARS

					CODE
12.			(will there be) a yield monitor on the equipment urvest this barley field?	VEC _ 1	1138
			ntinue; else go to item 13.]	169 = 1	
	a.	Was th	ere (will there be) a yield map produced from this tusing information from the yield monitor?	YES = 1	1139
	b.	Did you	u use the yield monitor information to—  code for all that apply.]		
		(1) mc	onitor crop moisture content to determine need for crop drying?	YES = 1	1140
		(2) ad	d/improve tile drainage?	YES = 1	1141
		(4) coi	d/improve irrigation equipment/irrigation water application?		1143
			ed varieties, herbicides, pesticides, etc.)?		1144
		(6) do	cument yields for crop insurance, real estate tax, or m program purposes?		1145
		(7) acc	curately divide crop production among partners and/or landlord crop shares?		1146
			ner uses [specify]		11/7
13.	to g	<b>jeo-refe</b> ch as so	O2 or 2003, was a GPS (Global Positioning System) device used erence and/or produce a map of the soil properties of this field? Dil nitrate levels, pH, etc.)	YES = 1	1148
	-		= YES, ask 13a and 13b; else go to item 14.] map (or will a map be) produced based on soil tests from this field?	YES = 1	1149
	b.	Was a	map (or will a map be) produced based on a machine that measured cal conductivity of the soil (e.g. Veris machine)?		1150
14.	Did of t	you ha	ave an airplane or satellite provide an image or photograph d either at the start of or during the 2003 growing season?	YES = 1	1151
15.			able rate applicator (i.e., variable rate technology or VRT) his field for		
	a.	fertiliza	tion or liming?	YES = 1	1152
			YES, ask Did you use a variable rate applicator for nter code for all that apply.]		
		a.	nitrogen applications?	YES = 1	1153
		b.	phosphorous applications?	YES = 1	1154
		C.	potash applications?	YES = 1	1156
		d.		YES = 1	1157
		e.		YES = 1	1158
	b.			YES = 1	1159
	C.	-	• •	YES = 1	
16.			dance or parallel swathing system (connected to G.P.S.) any machine operation on this field (e.g. light bar)?	YFS = 1	1208

#### **IRRIGATION** --- SELECTED FIELD

		•

		ACRES
1.	How many acres in this field were irrigated for the 2003 barley crop?	1160
	[If none, go to Section H.]	•

2. Now, I have some questions about irrigation systems and water used on this field for the 2003 barley crop.

	$\downarrow$	UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) were used to irrigate this field?  [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1161	1175
b.	What was the <b>total</b> quantity of water applied to this field during the entire growing season?  [Include ALL water used from both on-farm and off-farm sources.]	INCHES PER ACRE OR	1162 1163	1176
	[Include ALL water used from both on-farm and off-farm sources.]	TOTAL ACRE-FEET	1103	1177
	<ul> <li>[If operator cannot provide item 2b, ask (1) &amp; (2)]</li> <li>(1) What is the total number of hours this system was used to apply water to this field during the barley growing season?</li></ul>	TOTAL HOURS	1164	1178
	(2) How many gallons per minute were applied?	GALLONS PER MINUTE	1165	1179
C.	What percent of the water used to irrigate this field through this system came from surface water sources?	PERCENT	1166	1180
d.	What was the number of times this field was irrigated during the barley growing season using this system?  [Include any pre-plant irrigation.]	NUMBER OF IRRIGATIONS	1167	1181
e.	Was the pump type [Enter code for most common pump type.] (If more than one pump in the system, enter type for pump closest to water source.)  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		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?	HORSE- POWER	1172	1186
j.	[If NO PUMP was used (item e = 99), ask What was the average flow rate?	GALLONS PER MINUTE		1187
k.	How many <b>other</b> acres on this operation were irrigated using this field's irrigation system during the 2003 growing season? [Exclude this field.]	ACRES	1174	

3.	Was any water purchased to irrigate this field?  (Include landlord's share and purchases from all sources.)	CODE
		1189
	YES - [Enter code 1 and continue.] NO - [Go to item 4.]	DEDOENT
		PERCENT 1190
	a. What percent of the water used on this field was purchased?	1100
	DOLLARS & CENTS	
	b. What was the total cost for the water purchased for PER ACRE OR	TOTAL DOLLARS
	this field during the 2003 growing season?  (Include landlord and contractor costs and ditch maintenance costs.)	1192
	(Institute land of interest and distribution of the control of the	
4.	[If SIPHON TUBES were used (line a of item 2 = 10 or 11), ask]	TOTAL DOLLARS
•	[ c., rent reduce assa (e a c. ne 2	1193
	What would be the total cost to replace all the siphon tubes used on this field?	
5.	[If POLY PIPE system was used (line a of item 2 = 14), ask]	TOTAL DOLLARS
	What was the total amount spent for poly pipe used on	1194
	this field during the 2003 growing season?	
6.	[If GATED PIPE system was used (line a of item 2 = 15 or 16), ask]	INCHES
	a. What was the average diameter of gated pipe used to irrigate this field?	1195
	a. What was the average diameter of gated pipe used to imgate this field:	FEET
		1196
	b. What was the total length of gated pipe used?	
7.	Were wells used to supply irrigation water for this field?	CODE
		1197
	YES - [Enter code 1 and continue.] NO - [Go to item 8.]	
		NUMBER 1198
	a. How many wells were used to irrigate this field?	1190
	a. The many well were used to imigate and held the tree tree tree tree tree tree tree	INCHES
	b. What was the average diameter of the outer well casing?	1199
	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.	1200
	plus an average decline in the water level caused by pumping during the irrigation season.]	CODE
		1201
	d. Did this well(s) have a water meter or other flow measurement device? YES = 1	
	e. Were other fields irrigated using water pumped from the well(s)	
	that supplied water to the selected field?	<b>CODE</b> 1202
	☐ YES - [Enter code 1 and continue.] ☐ NO - [Go to item 8.]	1202
	Little [Little code i and continue.]	ACRES
	(1) How many other acres on this operation were irrigated using the same well(s) during the 2003 growing season?	1203

δ.	pipe used to carry water from the source to this field?  (Include underground pipe.)				
	☐ YES - [Continue.] ☐ NO - [Go to	item 9.]			
	What was the most common type of additional pipe used?	PIPE TYPE CODES  1 ALUMINUM - (NON-HI-PRESSURE) 2 ALUMINUM - (HI-PRESSURE) 3 STEEL 4 PLASTIC 5 OTHER (SPECIFY:)		<b>CODE</b> 1204	
				INCHES	
	b. What was the average diameter (in inches) of the most common type of this additional pipe used?			1205	
	c. How many feet of this additional pipe we	re used to bring water to this field?		<b>FEET</b> 1206	
		RUN-OFF CODES			
Ω	Is the run-off from this field	retained at the end of the field? re-used to irrigate on the farm? collected in evaporation ponds on the farm? drained from the farm? there is no run off.		1207	
9.					
10	Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field			CODE	
10.				1650	
	to manage nests?				

#### **DRYING**--SELECTED FIELD

_	ı
	ı

[ENUMERATOR NOTE: If barley was harvested for grain Section B, item 22, continue; else go to Section I.

	<ul> <li>1 Custom dried - Continue.</li> <li>2 Dried other than custom dried - Go to item 3.</li> <li>2 Not dried - Co to Spetion I.</li> </ul>		<b>CODE</b> 0830
	3 Not dried - Go to Section I.		
	[If CUSTOM DRIED (item 1 is code 1), ask]	CENTS DED DIISHEI	OR TOTAL DOLLARS
f	What was (will be) the cost of custom drying the barley from this field?  [If no cost, explain]	0831	OR TOTAL DOLLARS
		[Go to	Section I.]
			OFFICE USE 0105
		1 Diesel	
_		2 Gasoline	<b>CODE</b> 0833
3. [	[If DRIED OTHER THAN CUSTOM (item 1 is code 2), ask]	3 LP Gas	
a	a. Was the main fuel type used to dry barley from this field	4 Natural Gas	
		5 Electricity	
		6 Other	
			PERCENTAGE POINTS
	b. On the average, what percent of moisture was (will be)		0834

### LANDLORD/CONTRACTOR COSTS

1.	[If selected field RENTED, ask; else go to Conclusion.]  Did your landlord/contractor for this selected barley field contribute to the cost of any of these production expense items for the 2003 crop?	
		CODE
	[Show Landlord/contractor Cost items in the Respondent Booklet.]	0840

☐ YES - [Enter 1 and continue.] ☐ NO - [Enter 3 and go to Conclusion.]					
1 Which items? [Check ✓ all that are YES.]			2 [For each item checked in column 1, ask] How much did your landlord and/or contractor spend for [column 1 item] for this field?		
	Sad	nd Coata	PERCENT	OR	TOTAL DOLLARS
		ed Costs	0841		0842
ш	a. <b>Fe</b> r	Purchased seed		L	
П		Fertilizer custom applications	0843		0844
$\overline{\Box}$	C.	Fertilizer materials	0845	-	0846
		emicals/Pesticides Costs		ļ	
	d.	Chemical/pesticides custom applications	0847		0848
	e.	Chemical/pesticides materials	0849		0850
	Tec	chnical Services		ſ	
	h.	Soil tests or plant tissue tests	0855	-	0856
	i.	Scouting services	0857	-	0858
	j.	Develop or write plans	0859		0860
Custom Field Operations and Services					
	l.	Custom land preparation, shaping, and/or leveling	0863	-	0864
	m.	Custom cultivating	0865	-	0866
	n.	Custom planting and/or reseeding	0867	-	0868
	Ο.	Custom harvesting	0869	-	0870
	q.	Baler twine/wire	0873	-	0874
	r.	Custom hauling	0875		0876
	S.	Custom raking, baling or hauling barley straw	0877		0878
	t.	Custom drying	0879		0880
	V.	Contract and other paid labor	0883		0884
	w.	Other custom and/or technical services	0885		0886
	Dry	ring Costs			
	х.	Fuel and/or electricity for drying	0887		0888
	у.	Repairs of the facilities used for drying	0889		0890
	Irri	gation and Water Management Costs		ſ	
	Z.	Purchased irrigation water	0891		0892
	aa.	Fuel, lubrication, and electricity for irrigation	0893		0894

#### CONCLUSION LOCATION OF SELECTED FIELD **OFFICE USE** 1. I need to locate the selected field of barley **COUNTY FIPS COUNTY NAME** CODE on this map. 0010 What county is the selected barley field in? ..... **IENUMERATOR ACTION:** Mark map to indicate where the selected barlev field is located. Be sure the "X" marked on map is in county identified above.] 3. We will need additional information to complete this study. We will contact you in February or March, 2004, to collect it. I'll call you then to set up a time that's good for you. Would you like to receive a copy of the results of this survey in the mail? (Results will also be available on the Internet at <a href="http://www.usda.gov/nass/">http://www.usda.gov/nass/</a><a href="http://www.usda.gov/nass/">http://www.usda.gov/nass/</a><a href="http://www.ers.usda.gov">http://www.ers.usda.gov</a>) . . . . . . . . YES = 1 0099 **RECORDS USE** 5. [Did respondent use farm/ranch records to report--] CODE 0011 a. [fertilizer data?]......YES = 1 0012 b. [pesticide data?] . . . . . YES = 1 0013 c. [majority of this expense data?].....YES = 1 SUPPLEMENTS USED NUMBER FERTILIZER 0041 6. [Record the total number of each type of supplement **APPLICATIONS** used to complete this interview. 0042 **PESTICIDE APPLICATIONS** 0043 FIELD **OPERATIONS OPERATOR/MANAGER** CODE **SPOUSE** 0101 ACCOUNTANT/BOOKKEEPER RESPONDENT **OTHER OFFICE HOLD** PARTNER Respondent's name [if code 3, 4, or 9] . . . . . . . . . **MILITARY TIME** HHMM0005

ENDING TIME [MILITARY] ..... MM DD YY 0007 DATE: ...... 03 **ENUMERATOR ID** 0098 **ENUMERATOR NAME EVALUATION** 0100