

PARTNER NAME

STATE

ZIP

**ADDRESS** 

CITY

#### AGRICULTURAL RESOURCE MANAGEMENT SURVEY

# DURUM WHEAT PRODUCTION PRACTICES AND COSTS REPORT



NATIONAL AGRICULTURAL STATISTICS SERVICE

for 2009

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 Email: nass@nass.usda.gov

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VERSION		ID	TRACT	SUBTRACT	T-TYPE	TABLE	LINE	FRS
32		- <u>-</u>	01		0	000	00	ECONOMIC RESEARCH SERVICE
		C	ONTACT F	RECORD				
DATE	TIME			N	NOTES			
"VITEORIJOTIO	2.1.							
INTRODUCTION [Introduce yours		e operator. Rephrase in	your own w	vords.]				
as possible. Au of the U.S. Code	We are collecting information on practices and costs to produce durum wheat and need your help to make the information as accurate as possible. Authority for collection of information on the Durum Wheat Production Practices and Costs Report is Title 7, Section 2204 of the U.S. Code. This information will be used for economic analysis and to compile and publish estimates for your region and the United States. Response to this survey is confidential and voluntary.							
We encourage y	ou to refer to your	farm records during the	interview.					
	BEGINNING TIME [MILITARY]  HHMM  0004							
								SCREENING BOX
								0006
			_					
	Name, address and partners verified and updated if necessary							
PARTNER NAME		<del></del>		POID			_	
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CITY	STATE	ZIP PHONE NU	IMBER C	ITY	S	TATE ZIP	F	HONE NUMBER
POID			Р	חוח				

PARTNER NAME

STATE ZIP

PHONE NUMBER

**ADDRESS** 

CITY

PHONE NUMBER

**DURUM WHEAT FIELD SELECTION TOTAL PLANTED ACRES** 0050 1. How many acres of wheat (winter, durum and other spring) did this operation plant for the 2009 crop year? [For winter wheat, record acres planted in fall/winter 2008 for 2009 crop year.]. . . [If no acres planted, review Screening Survey Information Form, make notes, then go to item 4 on back page.] Of the total (item 1), how many acres were planted for---**TOTAL ACRES** 0051 winter wheat?.... 0052 durum wheat?..... 0053 other spring wheat?..... 2. I will follow a simple procedure to make a random selection from the durum wheat **TOTAL NUMBER OF** fields planted for the 2009 crop. **FIELDS PLANTED** 0020 What is the TOTAL number of durum wheat fields that were planted on this operation? [If only one field, enter "1" and go to item 5.].....

3. Please list these fields according to identifying name/number or describe each field. Then I will tell you which field has been selected.

[If there are more than 18 fields, make sure item 2 is **TOTAL** fields planted and list only the 18 fields closest to the operator's permanent residence. If respondent is unable to identify or describe the fields, use the Field Selection Grid Supplement.]

#### FIELD NAME, NUMBER OR DESCRIPTION

#### FIELD NAME, NUMBER OR DESCRIPTION

1	10
2	11
3	12
4	13
5	14
6	15
7	16
8	17
9	18

	APPLY "RANDOM NUMBER" I	ABEL HERE	
4.	the last numbered field in item 3. Sele	pair of numbers on the above label associated ct the field according to the number you circle ber. If only one field, enter 1.]	ed on 0021
5.	The field selected is	_ (field name/number/description). eat questions will be about this selected do	
			OFFICE USE OY Field Substituted 0022

## FIELD CHARACTERISTICS---SELECTED FIELD

В

				ACRES
1.	How many acres of durum whe			1301
	plant in this field for the 2009 of	rop?		·
				CODE
		DTIFIED ODGANIGO		1300
	a. Are the acres in this field <b>CE</b>	RTIFIED ORGANIC?	YES = 1	
	[If YES, skip 1b and ask item	2.]		
		•		CODE
	b. Was this field transitioning in	to organic durum wheat production in 2009?	VEC - 4	1399
	b. Was this held transitioning in	to organic durum wheat production in 2009?	YES = 1	
		1 owned by this operation?		CODE
	2 rented for CASH with the payment being a fixed cash amount?			
2.	Were the acres in this field	e cash amount?	1302	
	4 rented for a SHARE of the crop? 5 rented for some combination of CASH and SHARE of the crop?			
		6 used RENT FREE?	CE of the crop:	
				DOLLARS & CENTS
3	If field is CASH RENTED (item 2	2 = 2, 3, or 5), ask item 3; else go to item 4.]		PER ACRE
٥.		er acre for this 2009 durum wheat field?		1303
	what was the cash rent paid pe	er acre for this 2009 durum wheat held?		·
				PERCENT
4.	[If field is SHARE RENTED (item	2 = 4 or 5), ask ]		1304
	What was the landlord's share	of the crop from this field?		1004
5.	[If field is RENTED (item 2 = 2, 3	, 4, or 5) <i>, ask</i> ]		
	What was the total cost for all i	inputs provided by any landlord or	DOLLARS & CENTS	
	contractor for the 2009 crop or	the selected field? (Include the costs for all	PER ACRE OR	TOTAL DOLLARS
		· · · · · · · · · · · · · · · · · · ·	1305	1306
	<b>Exclude</b> real estate tax expenses and lim	ne costs paid by the landowner.)	· <u> </u>	
				YEAR
_	Mile of the on all discount (the same of	stated on the John Actor and an artist of the Co. 1.10		1307
Ь.	wnat year did you (the operator	'listed on the label) start operating this field?.		

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

12.	Dic	l you plant a NON Geneticall	y-Modified (GM) herbicide resistant wheat		
	(su	ch as Clearfield) seed variety	on this field	Г	CODE
	_	f 00000			1403
	a.	for 2009?	YES	S = 1	1100
	b.	for 20082	YES	S – 1	1402
	υ.	101 2000		<b>5</b> - 1 [	
	C.	[If item 12a or 12b is YES, ask] Did you choose the NON	<ul> <li>1 Increase yields through improved pest (weed) control?</li> <li>2 Decrease herbicide costs?</li> <li>3 Decrease machinery costs?</li> <li>4 Improve ability to use or ease of using reduced tillage or no-till system?</li> <li>5 Improve ability to use or ease of rotating crops?</li> </ul>		CODE
		GM herbicide resistant wheat primarily to	6 Save management time or labor or improve ease of management? 7 Adopt more environmentally friendly practices? 8 For some other reason? [Specify:]		1317
					CODES
seed becomes available, how likely would you be to plant it on this field under the following conditions? Assume that the total cost of the seed (including technology fee)					Very likely 2 Somewhat likely 3 Uncertain 4 Somewhat unlikely 5 Very unlikely
	a.	10 percent seed cost increase	<u> </u>		1322
	b.	·	3		1323
	υ.	20 percent seed cost moreast	<del>.</del>	-	1324
	C.	30 percent seed cost increase	<u>)</u>		
	d.	seed cost does not increase.			1325
					CODE
					1343
14.	Ha	s harvest of this field been c	ompleted? YES	S = 1	

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

	`			
How many acres in the durum wheat field were (or will be)	ACRES	What yield per acre did you (or do you expect to) get for wheat UNITS PER ACRE	2 UNIT CODE  1 POUNDS 2 CWT 3 TONS 4 BUSHELS  CODE	What was the protein content per bushel of wheat
	1346	1347	1348	1345
a. harvested for grain?			1340	1345
b. harvested for hay, silage or green chop?	1349	1350	TONS	
c. harvested for commercial seed contract?	1431	1432	1433	
d. abandoned?	1351			
e. used for some other purpose?	1439			

16	۱۸/۵	a atraw harvested from this field?	CODE
10.		s straw harvested from this field?	1354
	Ш	YES - [Enter code 1 and continue]	
			ACRES
			1355
17	Ho	w many acres of wheat straw were harvested from this durum wheat field?	
• • •			
			TOTAL TONS
			1356
	a.	How many <b>tons</b> of wheat <b>straw</b> were harvested from these durum wheat ( <i>item 17</i> ) acres?	
		$\frac{\cdot}{\text{Tons per Acre}}$ X $\frac{\cdot}{\text{Acres}}$ = $\frac{\cdot}{\text{Total Tons}}$ OR $\frac{\cdot}{\text{Bales}}$ X $\frac{\cdot}{\text{Lbs per Bale}}$ $\div$ $\frac{2000}{\text{Lbs per Ton}}$ = $\frac{\cdot}{\text{Total Tons}}$	
		Tons per Acre Acres Total Tons Bales Lbs per Bale Lbs per Ton Total Tons	
		PERCENT OR	TONS
	b.	Of the total wheat straw harvested from this durum wheat field	1358
	D.	(item 17a), what was the landlord's share of the wheat straw?	1000
			TOTAL DOLLARS
	C.	What was the total cost of baler twine/wire used to bale the wheat straw	1359
		from this durum wheat field? (Include landlord's share.).	
	٦		DOLLARS & CENTS
	u.	Was any wheat straw sold?	PER TON
		If yes, what was the price received per ton for all wheat straw (item 17a) sold from this durum wheat field?	1360
		sold from this durum wheat field?	·
18.	Did	any livestock graze this wheat field during the 2009 crop year?	CODE
	$\Box$	YES - [Enter code 1 and continue]	1400
19.	Wh	at type of livestock grazed this wheat field  1 Cattle	
		ring the 2009 crop year? (Include livestock 2 Sheep	CODE
	-	ting before wheat harvest and livestock "grazing-out"  3 Other [Specify:]	1361
	tne	field instead of harvesting wheat.)	
			HEAD
			1362
	a.	About how many <b>head</b> of livestock ( <i>item 19</i> ) grazed this wheat field?	
			DAYS
			1363
	b.	How many <b>days</b> did this livestock graze on this wheat field?	
			CODE
			1344
	C.	Was this wheat field "grazed-out" instead of harvested for grain? YES = 1	
	d.	Was payment received from others for livestock grazing on this field?	
	۵.		1364
		YES - [Enter code 1 and continue]       □ NO - [Go to item 20]	
			TOTAL BOLLARS
			TOTAL DOLLARS
		(i) What is the total dollar amount received? (Include landlord's share.)	1365
		(1) What is the total dollar amount received: (include landiold's share.)	1

	CROP CODE LIST for item 20 – PREVIOUSLY PLANTED CROPS						
190	Barley	3	Dry Beans	21	Rice	193	Tobacco, burley
85	Canola	17	Dry Peas	22	Rye	196	Tobacco, flue cured
310	Clover	311	Grasses other than clover	98	Safflower	42	Vegetables
6	Corn for grain	1	Hay, alfalfa	25	Sorghum for grain	163	Wheat, durum
5	Corn for silage	11	Hay, all other	24	Sorghum for silage	164	Wheat, other spring
282	Cotton, Pima	94	Mustard Seed	26	Soybeans	165	Wheat, winter
281	Cotton, Upland	15	Oats	28	Sugarbeets		
302	CRP	16	Peanuts	30	Sunflowers	318	
		20	Potatoes	31	Sweet Potatoes		during this period

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

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

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

a. Did you use a cover crop in conjunction with the 2009 wheat crop on this field?..... YES = 1

[If item 20a is YES, continue; else go to item 21]

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

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

21. III 2000, did your faile doc practices for this field include any or	21. In 2009, did your land-use practices for this field include any of the following						
1	2	3	4				
LAND-USE PRACTICE	Was this practice used?	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 Program (CSP)?  3 Conservation Reserve Program (CRP)?  4 Any other Federal, State, Local or non-government source?				
	YES = 1	YEAR	CODE				
a. Structures for soil erosion control?	1421						
(i) Terraces	1420	1441	1451				
(ii) Grade stabilization structures	1422	1442	1452				
b. Structures for storm water runoff control/handling?	1423						
(i) Grassed waterways	1438	1443	1453				
(ii) Structures for water control basins	1424	1444	1454				
c. Filter strips or other conservation buffers?	1425						
(i) Filter strips	1426	1445	1455				
(ii) Field borders	1427	1446	1456				
(iii) Riparian buffers ( <i>i.e., grass buffers</i> )	1428	1447	1457				
d. Other Practices?	1435						
(i) Contour farming and strip cropping	1434	1448	1458				
(ii) Other Practices [Specify:]	1436	1450	1460				

OFFICE USE

				CODE	=		
22.			ation Service (NRCS) classified any e"?YES	1404 = <b>1</b>			
23.	Hav	ve you been notified by NRCS th	at this field contains a wetland? YES	1405 <b>= 1</b>			
24.	mai ( <i>Incl</i>	intaining, or using conservation ude grassed waterways and filter strips or	assistance for planning, installing, practices or systems on this field? riparian buffers, or drainage area, on or adjoining this field.	1406			
25.	Include assistance from any source whether paid for or free.).  25. Is this field included in an existing conservation program contract for which you or the landlord have received (or expect to receive) cost sharing payments, stewardship payments, or incentive payments? [Be sure to consider grassed waterways and filter strips or riparian buffers, or drainage area, on or adjoining this field. Also, be sure to consider payments that are part of this contract but were made before 2009 or payments that are anticipated for future years.].  YES = 1						
		[If item 25 is YES, ask item 25a; else go to item 25b.]					
	a.	Have you received (or will you receive) cost sharing or incentive payments from	Environmental Quality Incentives Program (EQIP)     Conservation Security Program (CSP)     Conservation Reserve Program (CRP)     Other Federal, State, Local or non-government source	1418			
		Was this field included in a conservation program application that was rejected from	Environmental Quality Incentives Program (EQIP)     Conservation Security Program (CSP)     Conservation Reserve Program (CRP)     Other Federal, State, Local or non-government source	1419			

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

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

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

27.	[ <i>If i</i>	tem 26a, b, c, d, or e is YES, ask]				
		ve you ever paid any technical service				CODE
		develop or write any of these plans for				1352
	we	re reimbursed by the Natural Resource	Conservation Service?		'ES = 1	
	a.	[If YES, ask]		DOLLARS & CENT		
		What was the reimbursement amount for	developing these	PER ACRE	OR	TOTAL DOLLARS
		plans for this field? (Include landlord's/contra		1353		1384
		(Exclude cost of construction or materials.)		· <u> </u>	.]	
20	W.	s the durum wheat in this field				
20.		vered by Federal Crop Insurance in 200	9?			CODE
		·	□ <b>NO</b> – [Go to item 29]			1385
			Basic catastrophic insurance (Federal Property 1)	deral CAT)		CODE
			2 Buy-up above basic federal CAT			1386
	a.	Which coverage did you obtain?	3 Revenue insurance			
			4 Organic plan insurance			
		(1) 5151	5 Other Federal Crop insurance			PERCENT
		(i) [If item a = 3, ask]				1389
		What was the level of revenue cover	age you obtained for this field?			
						YEAR
	b.	In what year did you (the operator listed on	the label) first enroll this field			1387
		in the Federal crop insurance program?.				
					ı	BUSHELS PER ACRE
						1388
	C.	What is the 2009 Approved APH (actual p	production history) yield for this field?	?		
				DOLLARS & CENTS	:	
				PER ACRE	OR	TOTAL DOLLARS
	d.	What was the premium paid for Federal of		1390		1391
		for this field in 2009? (Exclude any sign-up f	ee.)	•		
						CODE
						1392
	e.	Did you (or will you) collect an indemnity	payment on this field?	YE	S = 1	
29.		s the durum wheat in this field covered				CODE
	•	vate crop insurance in 2009 (hail, wind,	•			1393
	Ш	YES – [Enter code 1 and continue]	□ <b>NO</b> – [Go to item 30]			
				DOLLARS & CENTS	,	
				DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
	a.	What was the premium paid for private c	rop insurance	1395		1396
		for this field in 2009? (Exclude any sign-up f		•		
					="	YEAR
	b.	In what year did you (the operator listed	on this label) first purchase			1397
		private crop insurance for this field?				
						CODE
	C.	Did you (or will you) collect an indemnity	payment on this field			1394
		for private crop insurance?		YE	S = 1	
						DOLLARS & CENTS
						PER BUSHEL
30.		at was the average price received for t				1398
	SOL	d by this operation for the 2009 crop ye	ar?			1

				CODE	EDIT TABLE
1.			rtilizers applied to this field for the	0202	0201
2.	[If COMMERCIAL nutrient or fe	ertiliz	zer applied, continue; else go to item 7.]		NUMBER
3.			or fertilizer applications were made to this field ons made by airplanes and custom applicators)		0203
4.	Now I need to record information	atio	n for each application.		
	CHEC				
¦✓	INCLUDE	✓	EXCLUDE		
<u> </u>	Custom applied nutrients or fertilizers		Micronutrients	T-TYPE	TABLE
	Nutrients or fertilizers applied in the fall of 2008 and those applied earlier if this field was fallow in 2008		Unprocessed manure		
!			Nutrients or fertilizers applied to previous crops in this field		
:				2	001
	Commercially prepared manure or compost		Lime and gypsum/landplaster Line 99	Office Use Lines in Table	0213
_					

Broadcast, ground without incorporation
 Broadcast, ground with incorporation
 Broadcast, by aircraft
 In seed furrow

**APPLICATION CODES for COLUMN 6** 

5 In irrigation water6 Chisel/Injected or knifed in7 Banded in or over row8 Foliar or directed spray

		2	2		3	4	5	6	7
L I N E	[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]  N [Show Common Nutrients or Fertilizers in Respondent Booklet.]		What quantity was applied per acre? [Leave this column blank if actual nutrients	[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  4 After seeding	How was this applied?  [Refer to code list above.]	How many acres were treated in this application?		
	<b>N</b> Nitrogen	P2O5 Phosphate	<b>K2O</b> Potash	<b>S</b> Sulfur	were reported.]				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

5.	We	re any nutrients or fertilizers applied by YES - [Continue]	y custom applicators? NO - [Go to item 6]		
	a.	Are you able to report the cost of nutrient and custom application separately?	or fertilizer materials		OFFICE USE
		• • • • • • • • • • • • • • • • • • • •	NO - [Go to item 6]		0215
	b.	Excluding the cost of the nutrient or fertiliz was spent for custom application of nutrie (Include landlord and contractor costs. Include cost Exclude custom application of lime, gypsum, purch [If material and application costs can't be separated total in item 6.].	ents or fertilizers on this field? sts for sulfur and micronutrients. assed manure & purchased compost.) d, <b>exclude</b> them here and record the	DOLLARS & CENTS PER ACRE 0	OR TOTAL DOLLARS
6.	as to	nat was the TOTAL COST of all nutrient oblied to this field? (Include operator, landlord, the costs for sulfur and micronutrients. [If custom appibe separated from application costs, include the could both the material and application costs.] Include was fallow in 2008. Exclude lime, gypsum, purchase	and contractor costs as well olied and the cost of materials ost of materials ONLY; otherwise, a materials applied to this field	DOLLARS & CENTS PER ACRE  0221	OR TOTAL DOLLARS  0222
					<b>CODE</b> 0218
7.	Wa	s gypsum applied to this field for the 20	009 durum wheat crop?	YES =	
			•		BUSHELS PER ACRE
					0217
8.	Wh	at was your yield goal at planting for th	iis field?		
9.	in 2	s a soil or plant tissue test performed on 2008 or 2009 for the 2009 crop?  YES [Continue] NO [Go to iter			CODE
10.		s a soil test for phosphorus performed 2008 or 2009 for the 2009 crop?		YES =	0225 <b>1</b>
		[If phosphorus test done, ask]			POUNDS PER ACRE
		How many pounds of phosphorus (per ac	cre) were recommended (by the ph	osphorus test)?	0226
					CODE
11.	Wa in 2	s a soil test for nitrogen performed on t 2008 or 2009 for the 2009 crop?	this durum wheat field	YES =	0227 <b>1</b>
	a.	[If nitrogen test done, ask]			POUNDS PER ACRE
		How many pounds of nitrogen (per acre)	were recommended (by the nitroge	en test)?	0228
					CODE
12.		s a plant tissue test or leaf analysis for this field for the 2009 crop?		YES =	0229
				DOLLARS & CENTS PER ACRE C	OR TOTAL DOLLARS
13.		w much was spent for these soil and plathis field? (Include operator, landlord, and contr		0230	0231
	a.	If tests were done at no cost, explain	Soil/plant tissue test provided free of of by dealer, crop consultant, or extension     Soil/plant tissue test costs were include fertilizer costs reported in item 6     Some other reason	on service	<b>CODE</b> 0232

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

15.	5. Was the amount of nitrogen you decided to apply to this field based on					
	a.	Results of a soil or plant tissue test?	0233			
	<b>u</b> .	120	0234			
	b.	Crop consultant recommendation?				
	C.	Fertilizer dealer recommendation?	0235			
	۵	Extension Service recommendation?	0236			
	d.	Extension Service recommendation?	0237			
	e.	Cost of nitrogen and/or expected commodity price? YES = 1				
	f.	Contractor recommendation?	0238			
	g.	Routine practice (operator's own determination based on past	0239			
		experience, yield goal, etc.)?				
16.	Dic	you purchase any commercial nitrogen fertilizer applied to this field	CODE			
		der contract or otherwise pre-purchase the fertilizer at a pre-determined ce prior to planting? YES = 1	0223			
	a.	[If YES, ask]	CODE			
		What month prior to planting for the 2009 crop did you contract for the	0224			
		fertilizer used on this field? [Enter code "1" for January, "2" for February, etc.]				
17.		1 Nitrification inhibitors (such as N-Serve) 2 Urease inhibitors (such as Agrotain) 3 Chemical-coated fertilizers (such as sulfur-coated urea and polymer-coated urea)	CODE			
		nitrogen on this field?	0241			
			CODE			
40	1- 1	inconstruction described to this field?	0242			
18.		ime ever applied to this field?				
	<i>шт г</i>	no lime applied, go to item 19; else continue.]	YEARS 0243			
	a.	On average, how many years are there between applications of <b>lime</b> to this field?				
			TONS PER ACRE			
	b.	How many tons of <b>lime</b> were applied per acre the last time it was applied to this field?	0244			
			CODE			
			0240			
	C.	Was lime applied to this field in 2008 or 2009 for the 2009 crop? YES = 1				
	d. IN field is marked (Operline D. House O. O. O. A. en 5)					
	d. [If field is rented (Section B, item 2 = 2, 3, 4, or 5), ask]					
	Considering the last time it was applied, what percent of the total cost of lime and its application was paid by the landlord(s)?					

19.	ma	Was non-commercial manure (from own farm, from a neighbor's farm, etc.) or other organic material (excluding compost) applied to this field for the 2009 durum wheat crop? (Exclude commercially prepared manure.)					
		YES - [Enter code 1 and con	inue]	0246			
				ACRES	_ _		
	a.	How many acres in this field	was manure applied to?	0247			
		,	· · · · · · · · · · · · · · · · · · ·		_		
	b.	What was the amount of ma applied to this field?		0250 ·			
				MILES			
				0251	٦		
	C.	What is the distance between	n the manure storage/production location and this field?				
			1 TONS CODE	TOTAL UNITS			
	d.	What was the capacity of the	e manure spreader	0253	٦		
		(or other verticle) used to ha	(or other vehicle) used to haul manure to this field? 3 BUSHELS				
	e.	Of the total manure applied crop, what was the percent		PERCENT			
		отор, пластио вто рогости		0254	٦		
		(i) in the fall before planting	j?+				
		(ii) in the spring before plan	ting? +	0255			
		(iii) often plenting?	+	0256			
		(iii) after planting?	······································	100%	╛		
				100 /6			
			1 Lagoon liquid?	CODE			
	f.	Was the manure	2 Slurry liquid?	0257			
			3 Semi-dry or dry?		╛		
		•	4. Donada at an americal without in a supersting 0				
			Broadcast or sprayed <i>without</i> incorporation?     Broadcast or sprayed <i>with</i> incorporation?	CODE			
	_	Mag the meaning	3 Injected/knifed in?	0258	1		
	g.	Was the manure	4 Sprayed using irrigation systems?				
		•					
			1 Beef cattle?	CODE			
	h.		2 Dairy cattle? 3 Hogs?	0259			
		of the manure from	4 Sheep?		╛		
			5 Poultry? 6 Equine?				
			7 Biosolids (municipal sludge)?				
			8 Food waste? 9 Other? [Specify:]				
			1				

i. Was the manure—  3 Obtained at no cost off this operation? 4 Obtained with compensation? (Operator received payment for accepting the manure.)  (i) [If item 19i = 2, ask—] What was the total cost of the purchased manure applied to this field? (Include any payment made for transportation costs.)  (ii) Did you hire someone to custom apply the manure?  (iii) Did you hire someone to custom apply the manure?  (iv) [If YES, ask—] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.]  (iv) Of the manure applied to this field, was any tested for nutrient content prior to application?  (iv) [If YES, ask—]  What was the application rate of commercial nitrogen fertilizer application rate or this field?  (iv) [If YES, ask—]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (iv) Nitrogen requirement of the crop?  (iv) Nitrogen requirement of the crop?  YES = 1  CODE  1. Did you adjust the durum wheat harvest date for this field use to the application of manure?  (iv) Nitrogen requirement of the crop?  YES = 1	i. Was the manure—  3 Obtained at no cost off this operation? 4 Obtained with compensation? (Operator received payment for accepting the manure.)  (i) [If item 19i = 2, ask] What was the total cost of the purchased manure applied to this field? (Include any payment made for transportation costs.)  (ii) Did you hire someone to custom apply the manure?  (iii) Did you hire someone to custom apply the manure?  (iv) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.]  (iv) Of the manure application rate of commercial nitrogen fertilizer on this field reduced due to manure application?  (iv) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  (iv) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (iv) If If If MES, ask] What basis was used to determine these manure application rate restrictions  CODE  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (ODE  1. Did you sylust the durum wheat harvest date for this field influenced by Federal, State, or local restrictions?  (ODE  1. Did you sylust the durum wheat harvest date for this field influenced by Federal, State, or local restrictions?  (ODE  1. Did you sylust the durum wheat harvest date for this field influenced by Federal, State, or local restrictions?  (ODE  1. Did you sylust the durum wheat harvest date for this field influenced by Federal, State, or local restrictions?				<ul><li>1 Produced on this operation?</li><li>2 Purchased?</li></ul>			
(i) [If item 19i = 2, ask] What was the total cost of the purchased manure applied to this field? (Include any payment made for transportation costs.)  DOLLARS & CENTS PER ACRE  0284  0285  CODE  (ii) Did you hire someone to custom apply the manure?  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  CODE  OR  TOTAL DOLLARS  0285  CODE  0286  CODE  0286  CODE  0286  CODE  0287  TOTAL DOLLARS  0287  CODE  0286  CODE  0261  1 [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  20. What basis was used to determine these manure application rate restrictions—  CODE  0286  CODE  0286  CODE  0286  CODE  0287  CODE  0288	(i) [If item 19i = 2, ask] What was the total cost of the purchased manure applied to this field? (include any payment made for transportation costs.)  (ii) Did you hire someone to custom apply the manure?  (iii) Did you hire someone to custom apply the manure?  (iv) [If YES, ask]  What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  DOLLARS & CENTS PER ACRE  0286   CODE  0286  TOTAL DOLLARS  0287  DOLLARS & CENTS PER ACRE  0287  TOTAL DOLLARS  0288  CODE  0261  1. Did you application rate of commercial nitrogen fertilizer on this field reduced due to manure application?  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  20. Were the manure application?  (i) Nitrogen requirement of the crop?.  YES = 1		i.	Was the manure	3 Obtained at no cost off this operation?		CODE	
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(ii) Did you hire someone to custom apply the manure? YES = 1  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  DOLLARS & CENTS PER ACRE 0287  TOTAL DOLLARS 0288  CODE 0261  1. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? YES = 1  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  I. Did you adjust the durum wheat harvest date for this field due to the application of manure? YES = 1  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  1. CODE 1. COD	(iii) Did you hire someone to custom apply the manure?  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  (287  DOLLARS & CENTS PER ACRE  (287  OR TOTAL DOLLARS  (288  CODE  Of the manure applied to this field, was any tested for nutrient content prior to application?  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  (i) Did you adjust the durum wheat harvest date for this field due to the application of manure?  (i) VES = 1  CODE  (i) Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (ii) Nitrogen requirement of the crop?  VES = 1  CODE  (i) Nitrogen requirement of the crop?  YES = 1						0285	
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(ii) Did you hire someone to custom apply the manure? YES = 1  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  (288  CODE  j. Of the manure application rate of commercial nitrogen fertilizer on this field reduced due to manure application? YES = 1  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application? YES = 1  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure? YES = 1  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? YES = 1  What basis was used to determine these manure application rate restrictions  CODE  0265	(iii) Did you hire someone to custom apply the manure?  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  (288  CODE  DOLLARS & CENTS PER ACRE  0287  OR  TOTAL DOLLARS  0288  CODE  Of the manure applied to this field, was any tested for nutrient content prior to application?.  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  Did you adjust the durum wheat harvest date for this field due to the application of manure?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (i) Nitrogen requirement of the crop?  VES = 1  OZ62  CODE  CODE  CODE  (ii) Nitrogen requirement of the crop?  YES = 1						CODE	
(ii) Did you hire someone to custom apply the manure?  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  (288  CODE  J. Of the manure applied to this field, was any tested for nutrient content prior to application?  K. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  (ii) [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  2265	(ii) Did you hire someone to custom apply the manure? YES = 1  (1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  DOLLARS & CENTS PER ACRE 0287  TOTAL DOLLARS 0288  CODE  j. Of the manure applied to this field, was any tested for nutrient content prior to application?. YES = 1  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?. YES = 1  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  Did you adjust the durum wheat harvest date for this field due to the application of manure? YES = 1  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions? YES = 1  (i) Nitrogen requirement of the crop? YES = 1							
(1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  Of the manure applied to this field, was any tested for nutrient content prior to application?.  K. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask] By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  21. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions—  CODE  22. CODE  23. CODE  24. CODE  25. CODE  26. CODE  26. CODE  26. CODE  26. CODE  26. CODE	(1) [If YES, ask] What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  (287			(ii) Did vou hire someone	to custom apply the manure?	YES =		
What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  JOSST  OR  TOTAL DOLLARS  0288  CODE  OR  OR  TOTAL DOLLARS  0288  CODE  OZ61  OZ61  OZ62  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  Did you adjust the durum wheat harvest date for this field due to the application of manure?.  OZ62  OZ63  PER ACRE  OZ87  OZ68  OZ66  OZ66  OZ66  OZ67  OZ67  OZ67  OZ62  OZ62  OZ62  OZ62  OZ63  DZ63  OZ63  OZ63  OZ63  OZ63  OZ63  OZ63  OZ63  OZ66  OZ66  OZ67  OZ67  OZ67  PER ACRE  OZ67  OZ67  OZ67  OZ67  PER ACRE  OZ67  OZ67  OZ67  OZ67  OZ67  OZ68  OZ66  OZ66  OZ66  OZ66  OZ65	What was the total cost paid to have manure custom applied to this field? [Do not report custom application cost if it was included with the purchased manure cost.].    OR			-				
to this field? [Do not report custom application cost if it was included with the purchased manure cost.].    CODE	to this field? [Do not report custom application cost if it was included with the purchased manure cost.].  CODE  j. Of the manure applied to this field, was any tested for nutrient content prior to application?.  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  22. VES = 1			(1) [If YES, ask]		<b>DOLLARS &amp; CENTS</b>		
in the purchased manure cost.].    CODE	the purchased manure cost.].  CODE  j. Of the manure applied to this field, was any tested for nutrient content prior to application?.  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  21. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  22. Ves = 1  CODE  23. CODE  24. CODE  26. CODE  26. CODE  26. CODE  26. CODE  26. CODE					PER ACRE O		
j. Of the manure applied to this field, was any tested for nutrient content prior to application?.  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  CODE  O262  PERCENT  0263  CODE  0280  CODE  0264	CODE  j. Of the manure applied to this field, was any tested for nutrient content prior to application?			-			0288	
j. Of the manure applied to this field, was any tested for nutrient content prior to application?	j. Of the manure applied to this field, was any tested for nutrient content prior to application?  k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  YES = 1  O262  PERCENT  0263  CODE  0280  CODE  0264  YES = 1  CODE  0265  0266			the purchased manure	cost.j			
k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  CODE  0262  PERCENT  0263  CODE  0280  CODE  0280  VES = 1  CODE  0264  CODE	k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  22. Ves = 1  23. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (ii) Nitrogen requirement of the crop?.  24. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (iv) Nitrogen requirement of the crop?.  YES = 1						CODE	
k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  3. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  CODE  0262  PERCENT  0263  CODE  0280  CODE  0280  VES = 1  CODE  0264  CODE	k. Was the application rate of commercial nitrogen fertilizer on this field reduced due to manure application?  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  21. If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?		j.	Of the manure applied to the	nis field, was any tested for nutrient content prio	or to	0261	
due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. State, or local restrictions?.  22. What basis was used to determine these manure application rate restrictions  23. CODE  24. CODE  25. CODE  26. CODE  26. CODE  26. CODE	due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  3. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  YES = 1  PERCENT  0263  CODE  0280  TES = 1  0264  0265  0265  0266			application?		YES =	1	
due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  21. State, or local restrictions?.  22. What basis was used to determine these manure application rate restrictions  23. CODE  24. CODE  25. CODE  26. CODE  26. CODE  26. CODE	due to manure application?.  (i) [If YES, ask]  By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?.  1. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  3. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  YES = 1  PERCENT  0263  CODE  0280  TES = 1  0264  0265  0265  0266							
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By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0280  CODE  0264  TES = 1  0264  0265	By what percent did you reduce the commercial nitrogen fertilizer application rate on this field?  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?  20. VES = 1						1	
application rate on this field?.  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?	application rate on this field?  I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?  CODE  0264  0265  0265			(i) [If YES, ask]			PERCENT	
I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0280  10280  CODE  0264  10264	I. Did you adjust the durum wheat harvest date for this field due to the application of manure?.  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?.  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  CODE  CODE  0264  0265  0266			By what percent did yo	u reduce the commercial nitrogen fertilizer		0263	
I. Did you adjust the durum wheat harvest date for this field due to the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	I. Did you adjust the durum wheat harvest date for this field due to the application of manure?			application rate on this	field?			
the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?  YES = 1  CODE  0264  10265  0265						CODE	
the application of manure?  20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	the application of manure?		I.	Did you adjust the durum v	wheat harvest date for this field due to		0280	
20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  yes = 1  0264  CODE					YES =	1	
20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	20. Were the manure APPLICATION RATES to this field influenced by Federal, State, or local restrictions?  a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  yes = 1  0264  CODE							
a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  CODE  0265	a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?.  YES = 1  O265	20	Wo	ero the manure APPLICATI	ON PATES to this field influenced by Fodora	ı		
a. [If item 20 is YES, ask] What basis was used to determine these manure application rate restrictions CODE	a. [If item 20 is YES, ask]  What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?  YES = 1	20.						
What basis was used to determine these manure application rate restrictions CODE  0265	What basis was used to determine these manure application rate restrictions  (i) Nitrogen requirement of the crop?  YES = 1  0265  0266			,		YES =	1	
0265	(i) Nitrogen requirement of the crop?		a. [If item 20 is YES, ask]					
	(i) Nitrogen requirement of the crop?			What basis was used to de	termine these manure application rate restriction	ns	CODE	
(i) Nitrogen requirement of the crop? YES = 1	0266							
				(i) Nitrogen requirement of	of the crop?	YES =	1	
	(ii) Phosphorus requirement of the crop? YES = 1							
(ii) Phosphorus requirement of the crop?				(ii) Phosphorus requireme	ent of the crop?	YES =	1	

24	۱۸/۵	a compact applied to this field for t	ha 2000 durum whaat aran?		CODE
۷١.		s compost applied to this field for t			0267
	Ш	YES - [Enter code 1 and continue]	□ NO - [Go to Section D]		
					ACRES
					0268
	a.	To how many acres in this field was t	he compost applied?		•
			CODE	UNITS PER ACRE OR	TOTAL UNITS
	h	What was the amount of compost	1 Tons	0270	
	υ.	applied to this field?			0271
				<u> </u>	<u> </u>
					[Enter up to 3 source codes]
			1 Beef cattle?		FIRST
			2 Dairy cattle?		0281
			3 Hogs?		
	C.	Were the major sources	4 Sheep? 5 Poultry?		SECOND
	٠.	of the compost from	6 Equine?		0282
			7 Biosolids ( <i>municipal sludge</i> )? 8 Food waste?		THE
			9 Crop? [Specify:	1	THIRD 0283
			10 Other? [Specify:		0200
			1 Produced on this operation?		
	d.	Was the compost	<ul><li>2 Purchased?</li><li>3 Obtained at no cost off this operation?</li></ul>		CODE
	۵.	Trac and demposit	4 Obtained with compensation? (Operato		0272
			received payment for accepting the con	npost.)	
		(1) 116 (1) 0 1 1	-	DOLLARS & CENTS	
		(i) [If item 21d = 2, ask]	_		TOTAL DOLLARS
		What was the total cost of the pu	rchased compost applied  ade for transportation costs.)	0273	0274
		to this held: ( <b>include</b> any payment in	ade for transportation costs.)	· <u> </u>	
					CODE
		(ii) Did bins some to sustain	annih , tha anno antO	¥ <b>-</b> 2	0275
			apply the compost?	YES = 1	
		(1) [ <i>If YES, ask</i> ]		DOLLARS & CENTS	
	What was the total o				TOTAL DOLLARS
		custom applied to this field? application cost if it was included wit	[Do not report custom   0   0   0   0   0   0   0   0   0	0276	0277
		.,,	,,		
		(iii) [If itams Odal = 4 == 1; ]			MILES
		(iii) [If item 21d = 1, ask]	compost storage/production location an	- 4.44-1- 6-1-40	0299
		What is the distance hetween the	COMPOST STORAGE/PROGRESSION IOCATION AN	IN THIS TIDIN /	

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

		CODE	EDII TABLE
1.	Were any herbicides, insecticides, fungicides or other chemicals used on this durum wheat field for the 2009 crop?		0301
	[Probe for applications made in the fall of 2008 (and those made earlier if this field was fallow). If no biocontrols or pesticides applied, go to <b>Section E</b> .]		

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

Include biological and botanical pesticides.

Exclude nutrients or fertilizers reported earlier and seed treatments.

Exclude nutrients or fertilizers reported earlier and seed treatments.

LINE OFFICE USE LINE IN TABLE

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
- 6 Chisel/Injected or knifed in
- 2 Broadcast, ground with incorporation
- 7 Banded in or over row
- 3 Broadcast, by aircraft
- 8 Foliar or directed spray

4 In seed furrow

9 Sp

5 In irrigation water

	9	10	11	12
L 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?	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

# [ENUMERATOR NOTE: Use these columns only if

TOTAL COST

(item 4 on next page) cannot be provided.]

. – – – – – . OPT	OPTIONAL ITEM 4				
What was the cost per unit of the product?					
! !	- -				
1	UNIT CODE				
1	1 Pounds 15 Liquid Ounces 12 Gallons 28 Dry Ounces				
	13 Quarts 30 Grams				
DOLLARS & CENTS PER UNIT	14 Pints				
0317	0318				
0317	0318				
· <u>·</u>	0010				
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.	Were any chemicals, biocontrols, or pesticides applied by custom applicators?					
	☐ YES	6 – [Continue]	$\square$ NO – [Go to item 4]			OFFICE USE
						0324
	a. Are	you able to report the	e cost of chemical product and custon	n application separately?		
		YES – [Continue]	☐ NO – [Go to item 4]			
	b. Exc	luding the cost of the	chemical product, how much was spe	DOLLARS & PER AC	_	TOTAL DOLLARS
	for o	custom application of	chemicals, biocontrols, and pesticide ator and landlord cost.)	S 0331		0332
4.	to this f	ield? (Include operator)	of all chemical products applied  landlord, and contractor cost, defoliants, surfactants, wetting agents, growth regulators,	DOLLARS & PER AC		TOTAL DOLLARS
	and mater	rials applied before planting	g and during 2008 fallow period. Exclude			0335
	NOTE <sup>2</sup>	<ol> <li>If respondent cannot Table.</li> </ol>	report TOTAL COST, itemize cost for each	ch product in optional column	s in Biocon	trol or Pesticide
	NOTE 2		I the costs for materials can be separated h the material and application costs in itel		de the cost	for materials only.

## **NOTES**

based primarily on---

# PEST MANAGEMENT PRACTICES---SELECTED FIELD

Ε

0807

Nο	w I have some questions about your pest mana	agement decisions and practices			
	ed on this field for the 2009 durum wheat crop. By pests, we mean		T-TYPE	TABLE	LINE
WE	EEDS, INSECTS, and DISEASES.		0	000	00
1.	[ENUMERATOR ACTION: Were PESTICIDE ap	·			
	☐ YES – [Continue]	<b>NO</b> – [Go to item 10 ]			
				COI	DE
2.	Was weather data used to assist in determining to make pesticide applications?			0800	
3.	Were any biological pesticides such as Bt (Ba regulators, neem or other natural/biological based)		Г		
	to manage pests in this field?			0801	
			L		
4.	Were pesticides with different mechanisms of for the primary purpose of keeping pests from			0802	
	the primary purpose of keeping pests from	r becoming resistant to pesticides :	. 123 - 1		
5.	[ENUMERATOR ACTION: Were HERBICIDE (p	esticide product codes 3000 4000)			
J.		in Section D, item 1, column 2?]			
	☐ YES – [Continue]	<b>NO</b> – [Go to item 8 ]			
			_		
6.	Were herbicides applied to this durum wheat BEFORE weeds emerged?	field		0803	
	DEI ONE weeds emerged:		. 123 - 1		
	a. [If item 6 is YES, ask]	1 routine treatments of what weeds			
	Were the herbicides applied BEFORE	are usually present?			
	weeds emerged on this durum wheat	OR 2 weed scouting from the previous year?	(	0804	
	field based primarily on	2 weed scouling from the previous year?			
			Г		
7.	Were herbicides applied to this durum wheat AFTER weeds emerged?			0805	
	Al TER weeds emerged:		. 123 - 1 _		
	a. [If item 7 is YES, ask]	1 routine treatments of what weeds			
	Were the herbicides applied AFTER	are usually present?  OR			
	weeds emerged on this durum wheat field based primarily on	2 weed scouting from the current year?	(	0806	
	neid based primarily on	, , , , , , , , , , , , , , , , , , , ,			
Ω	ENLINEDATOR ACTION, Mary INSECTIONS	(nesticide product codes 1000 - 2000)			
8.	[ENUMERATOR ACTION: Were INSECTICIDE applications reported	in Section D, item 1, column 2?]			
	☐ YES – [Continue]	NO – [Go to item 10 ]			
		1 routine treatments of what <b>insects</b>			
9.	Were the insecticides applied	are usually present?			
	to this durum wheat field	OR	Ī,	0807	

2 scouting for insect infestation?

<ul> <li>10. In 2009, how was this field primarily scouted for insects, weeds, diseases, and/or beneficial organisms?</li> <li>11. Was an established scouting process (syste or were insect traps used in this field?</li> <li>12. Was scouting for pests done in this field dual</li> <li>a. a pest advisory warning?</li> </ul>	activities [ <i>I</i> 2 By conductir routine task 3 This field wa [Enter code	ng, recording counts,	etc.) used	CODE  0808   0809  0810  0810	
b. a pest development model?					
1		2 [If YES, ask] What was the infestation level for [column 1]?  1 Worse than normal 2 Normal 3 Less than normal	Who did of the for [c  1 Operator, pa 2 An employee 3 Farm supply 4 Independent or commercia	or chemical dealer crop consultant al scout	
13. Was this durum wheat field scouted for	YES = 1	<b>CODE</b> 0813	0814	CODE	
a. weeds?		0010	0014		
b. insects or mites?	0815	0816	0817		
c. diseases?	0818	0819	0820		
[If scouted by crop consultant or commercial scout, else go to item 15.]  14. How much was charged for the scouting se	rvices for thi	is field?	OLLARS & CENTS PER ACRE	OR TOTAL DOLLARS 0822	
(Include landlord and contractor cost.)			· <u> </u>		
a. [If scouting performed at no cost, explain: _			1	OFFICE USE 0333	
15. Were written or electronic records kept for this field to track the activity or numbers of weeds, insects or diseases?					
16. Were scouting data compared to published to determine when to take measures to man				S = 1 0824	
17. Did you use field mapping of previous weed problems to assist you in making weed management decisions?					

18. 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 3 years?	YES	= 1	0844
	e.	Maintain ground covers, mulches, or other physical barriers?	YES	= 1	0845
	f.	Choose crop variety because of specific resistance to a certain pest?	YES	= 1	0846
	g.	Use no-till or minimum till?	YES	= 1	0847
	h.	Plan planting locations to avoid cross infestation of pests?	YES	= 1	0848
	i.	Adjust planting or harvesting dates?	YES	= 1	0849
	j.	Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines?	YES	= 1	0850
	k.	Clean equipment and field implements after completing field work to reduce the spread of pests?	YES	= 1	0851
	I.	Adjust row spacing, plant density or row directions?	YES	= 1	0852
	m.	Have the seed used in this field treated for insect or disease control after you purchased the seed?	YES	= 1	0854
	n.	Maintain a beneficial insect or vertebrate habitat?	YES	= 1	0855
	0.	Maintain buffer strips or border rows to isolate organic durum wheat from non-organic crops or land, or did you take a buffer harvest?	YES	= 1	0856
	p.	Use a flamer to kill weeds?	YES	= 1	0857
					CODE
9.		re any beneficial organisms (insects, nematodes, fungi) applied eleased in this field to manage pests?	YES	= 1	0853
				Ī	
20.		re floral lures, attractants, repellants, pheromone traps or other ogical pest controls used on this field?	YES	= 1	0858
	a.	[If item 19 or item 20 is YES, ask]			
		What were the TOTAL materials and application costs	DOLLARS & CENTS		
		for all biological pest controls for this field? (Include	PER ACRE	OR	TOTAL DOLLARS
		operator, landlord, and contractor shares. <b>Include</b> cost for beneficial organisms (insects, nematodes, and fungi). <b>Exclude</b> biological pesticides.)	0859		0860
		, , , , , , , , , , , , , , , , , , , ,	·		

		CODE
		0863
21.	Was a trap crop (excluding fallow) grown to help manage insects in this field? YES = 1	
22	Wee this field left follow in 2000 to help manage insects on this field?	0864
<b>ZZ</b> .	Was this field left fallow in 2008 to help manage insects on this field? YES = 1	
23.	Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on this field to manage for pests	0861
	or toxic producing fungi and bacteria? YES = 1	0001
24.	Was protection of beneficial organisms a factor in your pest control decisions for this field?	0862
PE	ST MANAGEMENT INFORMATION	
25.	[Show Pest Management Information Sources Code List from Respondent Booklet.]	
	Which outside sources of information on pest management practices and products were used for the 2009 durum wheat crop?	
	[Starting with the most influential in determining the pest management practices used	
	on this operation, enter codes for up to three sources.]	
	PEST MANAGEMENT INFORMATION SOURCES CODE LIST	[Enter up to 3
	1 County, Cooperative, or University Extension Advisor,	source codes.]
	Publications or Demonstrations	FIRST
	2 Farm Supply or Chemical Dealer	FIRST 0826
	3 Commercial Scouting Service	0626
	4 Independent Crop Consultant or Pest Control Advisor/Custom Applicator	
	5 Other Growers or Producers	SECOND
	6 Producer Associations, Newsletters or Trade Magazines	0827
	7 Electronic Information Services	
	(DTN, Internet, World Wide Web, etc.)  8 Employee Pest Advisor	
	9 Other – [Specify:]	THIRD
	10 None – Operator used no <b>outside</b> information source	0828
	. The second of	
		CODE
26.	Other than pesticide applicator training, have you (the operator) attended any	0829
	training session on pest identification and management since October 1, 2008? $YES = 1$	

Completion Code for Pest Management Data			
1 Incomplete/Refusal	0340		

2.

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

CHEC	K LIST	Ī
Include	Exclude	
Tractors owned, rented, leased or borrowed	Tractors provided by custom operators	H

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

Wa	Was a self-propelled combine and/or swather used to harvest the durum wheat field?					
	YES – [Continue]					
		YEAR				
a.	What is the model year of the self-propelled harvester(s) used to harvest durum wheat from this field? (Report the average year if more than one was used.)	0830				
		YEAR				
b.	What is the model year of the self-propelled swather(s) used in preparing to harvest durum wheat from this field? (Report the average year if more than one was used.)	0831				
	darum mileat nem ane neta : (hepertale areage year milea alam ene nae aeeal),					
		CODE				
C.	Did you use a defoliant in place of a swather in preparing to harvest the durum wheat from this field?	0832				

3.	Including custom operations, I need to list field work performed
	by machines on this field for the 2009 durum wheat 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 2008, list operations starting with fall 2007];
- ▶ 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
ı	
ı	Include all field work using machines for
I	☐ Land Forming/Levee Building
ı	Tillage
ı	☐ Preparing for Irrigation
•	Planting
!	Fertilizer & Pesticide applications
	Harvesting & Hauling wheat and wheat straw to storage or first point of sale
:	Exclude
!	Lime & Gypsum/landplaster applications

2	3	4	5		[ IF CUSTOM	(column 5 = code (	6), skip columns 6-1	0]
				6	7	8	9	10
SEQUENCE	What operation or equipment was used?	[Record machine code from Respondent Booklet.]	Who was the machine operator?  [Enter code from above.]	What was the size or swath of the [ <i>machine</i> ] 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	0483	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 2009 durum wheat crop. (*Exclude* labor that was reported for field work performed by machines.)

	How many hour	1  How many hours did (type of worker) spend on this field				
	a.	a. b.				
	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			

		DOLLARS & CENTS 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.)	1118 ·
		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
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

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

		CUSTOM SERVICE  Which of the following services were performed for the 2009 durum wheat crop on this field?	Including operator, landlord, and contractor costs, how much was spent for [column 1] on this field for the 2009 durum wheat crop?  DOLLARS & CENTS		
$\checkmark$		- [Check box for each service performed; refer to item 3 if necessary.]		4404	PER ACRE
	a.	Custom land preparation, shaping and/or leveling  x = ÷ = .		1121	
		(Cost per Hour X Total Hours = Total Dollars ÷ Total Acres in the Field = Dollars & Cent	ts per Acre)	4400	·——
	b.	Custom cultivating		1122	·
	C.	Custom planting and/or reseeding		1123	· <u> </u>
П	d.	Custom harvesting		1124	
		Custom hauling to storage or point of first sale		1126	<del></del>
		(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & C	Cents per Acre)		·
	f.	Harvesting and hauling from field to storage or point of first sale		1127	
		(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & C	Cents per Acre)		· <u> </u>
	g.	Custom raking, baling, and hauling the straw from this field		1128	
		(Dollars & Cents per Unit x Total Units Hauled from Field ÷ Acres Harvested in Field = Dollars & C	Cents per Acre)		· <u> </u>
10.	(su	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]  nich of the following services did you obtain?	3		CODE
		·			1129
	а.	Nutrient recommendations/management service?	· · · · · · · · · · · · · · · · · · ·	YES = 1	1130
	b.	Soil or tissue sample collection?	<b>\</b>	YES = 1	1130
	C.	Pest control recommendations/management service?	<b>\</b>	YES = 1	1131
	d.	Pest scouting?		/ES = 1	1132
					1133
	e.	Irrigation management service (i.e. irrigation scheduling)?	<b>)</b>	YES = 1	1134
	f.	Yield map or remote sensing map development/interpretation?	<b>\</b>	YES = 1	-
	g.	Other custom or technical service? [Specify:	] \	YES = 1	1135
11.	se	rvices? (Include operator, landlord, and contractor costs. Exclude cost of	DOLLARS & CEN PER ACRE		
		Vissue 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.)	1136 ·		1137

		CODE
12. Was there (or will there be) a yield monitor on the equipment used to har this durum wheat field?		1138
[If YES, continue; else go to item 13]		
a. Was there (or will there be) a yield map produced from this harvest using information from the yield monitor?		1139
b. Did you use the yield monitor information to		
		1140
(i) monitor crop moisture content to determine need for crop drying?	YES = 1	1141
(ii) add/improve tile drainage?	YES = 1	1141
		1142
(iii) add/improve irrigation equipment/irrigation water application?	YES = 1	4440
(iv) conduct in-field experiments (e.g., compare fertilizer applications, seed varieties, herbicides, pesticides, etc)?	YES = 1	1143
, , , , , , , , , , , , , , , , , , , ,		1144
(v) negotiate new crop leases?	YES = 1	
(vi) document yields for crop insurance, real estate tax, or farm program purposes?	YFS = 1	1145
(vii) accurately divide crop production among partners and/or for		1146
landlord crop shares?	YES = 1	
(viii) other uses [specify:	1 VEC - 4	1147
• • • •	<del></del>	
<ol> <li>During 2008 or 2009, was a GPS (Global Positioning System) device used a map of the soil properties (such as nitrate levels, PH, soil type, etc.) of the</li> </ol>		1148
a [If VES ask] 1 soil tests from this field?		
a. [If YES, ask]  Was the information  1 soil tests from this field? 2 a machine that measured electrical conduction of the soil in this field (e.g. Veris machin		1149
collected above based on 3 other? [Specify:	1	
14. Did you have an airplane or satellite provide an image or photograph		1151
of this field either at the start or during the 2009 growing season?	YES = 1	
15. Was a variable rate applicator used on this field for		1152
a. fertilization or lime application?	YES = 1	
(i) [If YES, ask]		
Did you use a variable rate applicator for		1153
(1) nitrogen applications?	YES = 1	
(O) where he was a walk at the walk	YES = 1	1154
(2) phosphorus applications?	YES = 1	1155
(3) potash applications?	YES = 1	
		1156
(4) lime applications?	YES = 1	
(E) manufa applications?	YES = 1	1157
(5) manure applications?	123 - 1	1158
b. seeding?	YES = 1	
		1159
c. pesticide applications?	YES = 1	
16. Was a guidance or parallel swathing system (connected to GPS) used with any machine operation on this field (e.g. light bar)?	VEQ = 4	1150

## **NOTES**

G IRRIGATION G

		ACRES
1.	How many acres in this field were irrigated for the 2009 durum wheat crop?	1160
	[If none, go to <b>Section H</b> ]	

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

		UNIT	SYSTEM 1	SYSTEM 2
a.	What type(s) of irrigation system(s) was (or were) used to irrigate this field? [Show System Type Codes in the Respondent Booklet. Enter System Type Code for up to two systems covering the most field acres.]	SYSTEM TYPE CODE	1161	1175
h	What was the total quantity of water applied to this field during	INCHES PER ACRE	1162	1176
D.	the entire growing season? (Include ALL water used from both on-farm and off-farm sources.).	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 durum wheat 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 durum wheat growing season using this system? ( <i>Include any pre-plant irrigation</i> .).	NUMBER OF IRRIGATIONS	1167	1181
e.	### TURBINE?    SUBMERSIBLE?   SUBMERSIBLE?   CENTRIFUGAL?	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 2009 growing season? (Exclude this field.).	ACRES	1174	1188

		DOLLARS & CENTS PER ACRE	OR	TOTAL DOLLARS
		1189		1190
3.	What was the cost of the fuel or electricity used to irrigate this field?			

4	14/	any western name has a discinuis rate this field?	CODE
4.		s any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.)	1191
	Ш	YES – [Enter code 1 and continue.]	
			PERCENT
			1192
	a.	What percent of the water used on this field was purchased?	1102
	h	What was the total cost for the water purchased for this field PER ACRE OR	TOTAL DOLLARS
		during the 2009 growing season? ( <i>Include landlord and contractor</i>	1194
		costs and ditch maintenance costs for this field.)	
			TOTAL DOLLARS
5.	[If S	IPHON TUBES were used (item 2a = 10 or 11), ask]	1201
	Wha	at would be the total cost to replace all the siphon tubes used on this field?	
6.	[If P	OLY 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
	200	9 growing season?	
7.	[If G	SATED PIPE system was used (item 2a = 15 or 16), ask]	INCHES
			1203
	a.	What was the average diameter of gated pipe used to irrigate this field?	
			FEET
			1204
	b.	What was the total length of gated pipe used?	1204
		2	
8.	Wei	re wells used to supply irrigation water for this field?	CODE
		YES – [Enter code 1 and continue]	1205
	ш		
			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?	.=0.
	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 water level caused by pumping during the irrigation season.]	1208
		, , , <u>, , , , , , , , , , , , , , , , </u>	
			CODE
			1209
	d.	Did the well(s) have a water meter or other flow measurement device? YES = 1	
		Were other fields irrigated using water pumped from well(s) that supplied	CODE
		water to the selected field?	1210
		☐ YES – [Enter code 1 and continue] ☐ NO – [Go to item 9]	
			ACDEC
	f.	Excluding this field, how many other acres on this operation were irrigated	ACRES
		using the same well(s) during the 2009 growing season?	1211

	Was any additional mainline or latera in this field? (Include underground pipe. Ex	Il pipe used to carry water from the so clude any system pipe within the selected field.)	urce to the system	
	☐ YES – [Continue] ☐ NO	– [Go to item 10]		
				INCHES
	a. What was the average diameter (in of this additional pipe used?	inches) of the most common type		1212
				FEET
	b. How many feet of this additional pip	e were used to bring water to this field?.		1213
	_			
		RUN-OFF CODES		
		1 retained at the end of the field?		CODE
		2 reused to irrigate on the farm?		1214
10.	Is the run-off from this field	3 collected in evaporation ponds on the farm?		
		4 drained from the farm?		
		5 there is no run-off		

H MANAGEMENT H

1.		esponse to higher or more volatile fuel prices during the 2009 crop year durum wheat, did you	
	a.	reduce the number of field operations such as tillage, cultivation, or nutrient	CODE
		and pesticide applications on this field (i.e., compared to what you would have otherwise applied)?	1220
	b.	reduce the amount of irrigation water on this field ( <i>i.e.</i> , <i>compared to what you</i> would have otherwise applied)?YES = 1	1222
	C.	change other production practices on this field? [If yes, specify:] YES = 1	1223
2.		esponse to higher or more volatile fertilizer prices during the 2009 crop year durum wheat, did you	CODE
	a.	reduce the application rate of commercial nitrogen fertilizer on this field (i.e., compared to what you would have otherwise applied)? YES = 1	1224
		(i) [If YES, ask]	PERCENT
		By what percent did you reduce the amount of commercial nitrogen fertilizer applied for 2009?	1225
	b.	change the type of commercial nitrogen fertilizer products applied on this field	CODE
		(i.e., compared to what you would have otherwise applied)?  [e.g. less anhydrous ammonia and more UAN] YES = 1	1226
	C.	increase the application rate of manure or other organic fertilizers on this field (i.e., compared to what you would have otherwise applied)? YES = 1	1227
	d.	manage fertilizer more closely, with such practices as soil testing, split applications,	
		variable rate applications, or soil incorporation on this field ( <i>i.e., compared to what you would have otherwise done</i> )?	1228
3.		s this field irrigated in 2008 and in 2009? YES – [Continue]	
4	D:4	variation production protions in 2000 due appointingly to reduced evaluability.	CODE
4.		you alter production practices in 2009 due specifically to reduced availability vater supplies for irrigation on this field?	1221
	[ <i>If</i> \	'ES, continue; else go to <b>Conclusion</b> ]	
	a.	Did you shift to wheat production on this field in 2009 due to reduced availability of water supplies?	1229
	b.	Did you reduce the water applied to this field in 2009 due to reduced availability of water supplies?	1230

## **CONCLUSION**

LO	CATION OF SELECTED FIELD			
1.	I need to locate the selected field of durum wheat on this map.	COUNTY N	AME C	OFFICE USE COUNTY FIPS CODE
	What county is the selected durum wheat field in?			0010
	Field description			
FO	R STATES WITH GPS UNITS ONLY	LATITUDE	LON	GITUDE
	Field location. N	1 	<b>w</b> 0055	'
2.	[ENUMERATOR ACTION: Mark map to indicate where Be sure the "X" marked on r			mm ss
3.	We will need additional information to complete this or March 2010 to collect it. I'll call you then to set up			
				CODE
4.	Would you like to receive a free copy of the results of (Results will also be available on the Internet at http://www.nass.usda.g			0099
				нн мм
5.	ENDING TIME [MILITARY]			0005
RE	CORDS USE			
6.	[Did respondent use farm/ranch records to report]			CODE
	a. [fertilizer data?]		YES = 1	0011
				0012
	b. [pesticide data?]		YES = 1	0013
	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
	Reported by:	Telephone: (	)	

Resp	oonse	Respor	ndent	Mode		Enum	Eval.	Date	Opti	ional
			_		_			MM DD YY		
1-Comp 2-R 3-Inac	9901	1- Op/Mgr 2-Sp 3-Acct/Bkpr 4-Partner 9-Other	9902	2-Tel 3-Face-to-Face	9903	0098	0100	9910	0002	0003
S/F Name										