



**NATIONAL
AGRICULTURAL
STATISTICS
SERVICE**

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

**AGRICULTURAL RESOURCE MANAGEMENT STUDY
DURUM WHEAT PRODUCTION
PRACTICES REPORT
for 2000**

Form Approved
O.M.B. Number 0535-0218
Approval Expires 10/31/03
Project Code 906
Phase II

VERSION 7	ID _____	TRACT 01	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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DATE	TIME

CONTACT RECORD
NOTES

R CODES	
3 - COMPLETE	0910
5 - OUT OF SCOPE	
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 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 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.

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

SCREENING 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 0008
3 = ZERO TARGET

[Name, address and partners verified and updated if necessary.]

POID _____	POID _____
<i>PARTNER NAME</i>	<i>PARTNER NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>	<i>CITY STATE ZIP PHONE NUMBER</i>
POID _____	POID _____
<i>PARTNER NAME</i>	<i>PARTNER NAME</i>
<i>ADDRESS</i>	<i>ADDRESS</i>
<i>CITY STATE ZIP PHONE NUMBER</i>	<i>CITY STATE ZIP PHONE NUMBER</i>

B FIELD CHARACTERISTICS---SELECTED FIELD

1. **How many acres of durum wheat did this operation plant for the 2000 crop year?**

[> If no acres planted, review Screening Survey Information Form. Make notes, then go to item 4 of **Conclusion.**]

TOTAL PLANTED ACRES

0019

3. I will follow a simple procedure to make a random selection from the durum wheat fields planted for the 2000 crop.

What is the TOTAL number of durum wheat fields that were planted on this operation?

TOTAL NUMBER OF FIELDS PLANTED

0020

[If only 1 field, enter 1 and go to item 5.]

4. **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 3 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

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____

FIELD NAME, NUMBER OR DESCRIPTION

- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____
- 18 _____

APPLY "RANDOM NUMBER" LABEL HERE

5. **[ENUMERATOR ACTION:**

Circle the pair of numbers on the above label associated with the last numbered field in item 4. Select the field according to the number you circled on the label, and record the selected number. If only 1 field, enter 1.]

SELECTED FIELD NUMBER

0021

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

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

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

**OFFICE USE
OY Field Substituted**

0022

ACRES
1535

1. **How many acres of durum wheat did this operation plant in this field for the 2000 crop?**

B FIELD CHARACTERISTICS---SELECTED FIELD

YEAR

1536

5. What year did you start operating this field?

CODE

1537

a. Do you EXPECT to be operating this field for the next 5 years (through the 2005 crop year)? YES = 1

MM DD YY

1538
____ _

7. On what date was this field planted?

CODE

1539

12. Was the source of the durum wheat seed-

1	Purchased?
2	Homegrown or traded?
3	Both?

CODE

1540

21. Has harvest of this field been completed? YES = 1

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

	1		
How many acres in the durum wheat field were (will be)--	ACRES	2 What yield per acre did you get (do you expect to get) for-- UNITS PER ACRE	3 UNIT CODES 1=POUNDS 2=CWT 3=TONS 4=BUSHEL
a. harvested for grain?	1541 _____	1542 _____	1543
b. harvested for silage or green chop?	1544 _____	1545 _____	TONS
c. harvested for seed for planting?	1546 _____	1547 _____	1548
d. abandoned?	1549 _____		
e. used for some other purpose?	1550 _____		

POUNDS PER BUSHEL

1551

f. [If wheat harvested for grain or seed, ask--]
What was the test weight of the wheat harvested for grain (seed)?

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

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

1 What crop was PLANTED on this field in--			2 Was this crop irrigated? YES = 1
	CROP NAME	CROP CODE	
a. FALL of 1999?		1552	1553
b. SPRING/SUMMER of 1999? ..		1554	1555
c. FALL of 1998?		1556	1557
d. SPRING/SUMMER of 1998? ..		1558	1559
e. FALL of 1997?		1560	1561
f. SPRING/SUMMER of 1997? ..		1562	1563

1 27. In 2000, did your land-use practices for this field include--	CODE	2 In what year were the (column 1) established in this field? YEAR	[If (column 1) were established before operator began operating this field, enter code 1.]	3 In 2000, did (or will) the Federal or State government pay an annual rental payment for keeping this conservation practice in place? [YES=1]
a. terraces?	1564	1565	1566	
b. temporary or permanent levees? YES = 1	1567	1568	1569	
c. grassed waterways?	1570	1571	1572	1573
d. filter strips or riparian buffers on or adjoining the field?	1574	1575	1576	1577
e. contour farming?	1578			
f. strip cropping?	1579			
g. underground outlets such as tile drainage?	1580			
h. other drainage channels or diversions?	1581			

B FIELD CHARACTERISTICS---SELECTED FIELD

- CODE**
28. **Has the Natural Resource Conservation Service (NRCS) classified any part of this field as "Highly Erodible"?** YES = 1 1582
29. **Have you been notified by NRCS that this field contains a wetland?** YES = 1 1583
30. **In 2000, did you receive technical assistance for planning, installing, maintaining, or using conservation practices or systems on this field?**
(Include grassed waterways and filter strips or riparian buffers on or adjoining this field. Include assistance from any source whether paid for or free.) YES = 1 1584
31. **In 2000, did you (or will you) receive cost-sharing or incentive payments for conservation practices on this field** [*Be sure to consider grassed waterways and filter strips or riparian buffers on or adjoining this field.*]?
(Include payments received from any source by either the owner or operator. Exclude rental payments for keeping the land in these practices.) YES = 1 1585

32. During 2000, did any formal plan of the following types cover this field and, if so, in what year was the plan implemented? <i>("Formal plan" is a written plan prepared in accordance with Federal, State, or Conservation district standards.)</i>	CODE	YEAR IMPLEMENTED
a. Conservation plan specifying practices to reduce soil erosion? . . . YES=1	1586	1587 ____ _
b. Comprehensive nutrient management plan specifying practices for applying both fertilizer and manure? YES=1	1588	1589 ____ _
c. Nutrient management plan specifying practices for land application of manure only? YES=1	1590	1591 ____ _
d. Pest management plan specifying pesticide use and/or other practices for controlling weeds, insects, or plant disease? . . . YES=1	1592	1593 ____ _
e. Irrigation water management plan specifying practices for applying or conserving irrigation water? YES=1	1594	1595 ____ _

33. **Was the durum wheat crop on this field covered by Crop Insurance in 2000?**
- CODE**
- YES** - [*Enter code 1 and continue.*] YES=1 1596
- NO** - [*Go to Section C.*]

If 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 price. . . YES=1 | 1597 |
| b. Buy-up insurance for higher levels of yield and price protection
<i>(such as 65% of yield and 100% price).</i> YES=1 | 1598 |
| c. Federal Revenue insurance include Income Protection (IF), Crop Revenue Coverage (CRC), and Revenue Assurance (RA). YES=1 | 1599 |
| d. Other Federal Crop insurance
<i>(Group Risk Plan, Adjusted Gross Revenue, Group Risk Income Protection, etc.)</i> YES=1 | 1600 |
| e. Other Private Crop insurance
<i>(Hail, wind, freeze, etc.)</i> YES=1 | 1601 |

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 2000 durum wheat crop? YES=1

CODE	EDIT TABLE
1602	0201

2. [If COMMERCIAL fertilizers were applied, continue, else go to item 7.]

3. How many trips were made across this field to apply commercial fertilizers for the 2000 crop (include applications made by airplanes and commercial applicators)?

NUMBER
1603

4. Now I need to record information for each application.

CHECK LIST		T-TYPE	TABLE
INCLUDE	EXCLUDE	2	001
<input type="checkbox"/> Custom applied fertilizers <input type="checkbox"/> Fertilizer applied in the fall of 1999 and those applied earlier if this field was fallow in 1999 <input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Fertilizer applied to previous crops in this field	OFFICE USE LINES IN TABLE	0213
		LINE 99	

LINE	2 → → → MATERIALS USED			3 What quantity was applied per acre? <small>[Leave this column blank if actual nutrients were reported.]</small>	4 [Enter material code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 In the fall Before seeding 2 In the spring Before seeding 3 At seeding 4 After seeding	6 How was this applied? 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air 4 In seed furrow 5 In irrigation water 6 Chisel, injected or knifed in 7 Banded/Sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	7 How many acres were treated in this application? ACRES
	N Nitrogen	P ₂ O ₅ Phosphate	K ₂ O Potash					
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 . __

T-TYPE 0	TABLE 000	LINE 00
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C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

T-TYPE 0	TABLE 000	LINE 00
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UNIT CODES
 1=POUNDS
 2=CWT.
 4=BUSHEL

UNITS PER ACRE	
1604	1605

7. What was your yield goal (or expected yield) for this field?

CODE

1606

8. Was a soil test for phosphorus performed on this durum wheat field in 1999 or 2000 for the 2000 crop? YES = 1

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

POUNDS PER ACRE

1607

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

CODE

1608

9. Was a soil test for nitrogen performed on this durum wheat field in 1999 or 2000 for the 2000 crop? YES = 1

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

POUNDS PER ACRE

1609

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

10. [Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete items 11 and 12. If NO nitrogen applied, skip to item 13.]

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

CODE

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

1610
1611
1612
1613
1614
1615

12. Did you use any product to slow the breakdown of nitrogen on this field? (For example a nitrification inhibitor such as N-Serve or a urease inhibitor such as Agrotain) YES = 1

1616

13. Was a plant tissue test performed on this field in 1999 or 2000 for the 2000 durum wheat crop? YES = 1

1617

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

15. **Is lime ever applied to this field?** YES = 1 CODE
1618

a. [If no lime applied, go to item 16--else continue.]

On average, how many years are there between applications of **lime** to this field? YEARS
1619

b. How many tons of **lime** were applied per acre the last time it was applied to this field? TONS PER ACRE
1620

16. **Was sulfur applied to this field for the 2000 crop?** YES = 1 CODE
1621

a. [If sulfur applied, ask--]

How many pounds of sulfur were applied per acre? POUNDS PER ACRE
1622

17. **Was gypsum applied to this field for the 2000 crop?** YES = 1 CODE
1623

18. **Were micronutrients applied to this field for the 2000 crop?** YES = 1 CODE
1624

a. [If micronutrients applied, ask--]

Did the micronutrients include **zinc**? YES = 1 CODE
1625

19. **Was manure applied to this field for the 2000 durum wheat crop?**
(Exclude commercially prepared manure.)

YES - [Enter code 1 and continue.] CODE
1626

NO - [Go to **Section D**.]

a. How many acres was manure applied to? ACRES
1627

b. What was the total amount of manure applied to this field? TONS PER ACRE OR TOTAL TONS
1629 1628

OR

GALLONS PER ACRE OR TOTAL GALLONS

1631 1630

c. What is the hauling distance between the manure storage and the manured field? MILES
1632

d. How many trips did it take to complete the manure application to the entire field? NUMBER
1633

e. What was the percent of manure applied--?

(1) in the fall before planting? + PERCENT
1634

(2) in the spring before planting? + 1635

(3) after planting? + 1636

100%

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

manure--continued

f. Was the manure--

- 1 Dry Broadcast *without* incorporation?
- 2 Dry Broadcast *with* incorporation?
- 3 Liquid Broadcast *without* incorporation?
- 4 Liquid Broadcast *with* incorporation?
- 5 Injected/knifed in?

CODE

1637

g. Was the major source of the manure from--

- 1 Beef cattle?
- 2 Dairy cattle?
- 3 Hogs?
- 4 Sheep?
- 5 Poultry?
- 6 Equine?
- 7 Biosolids (*municipal sludge, food waste, etc.*)?
- 8 Other (*Specify _____*)?

CODE

1638

h. Was the manure--

- 1 Produced on this operation?
- 2 Purchased?
- 3 Obtained at no cost off this operation?

CODE

1639

20. Were the manure APPLICATION RATES to this field influenced by State or local restrictions?

YES = 1

1640

a. [If YES, ask--]

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

(1) Nitrogen requirement of the crop?

YES = 1

CODE

1641

(2) Phosphorus requirement of the crop?

YES = 1

1642

D PESTICIDE APPLICATIONS---SELECTED FIELD

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 2000 durum wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the durum wheat field for the 2000 crop? YES = 1

CODE	EDIT TABLE
1643	0301

[Probe for applications made in the fall of 1999 (and those made earlier if this field was fallow).]

[If no pesticides applied, go to Section E.]

<p>Include defoliants, fungicides, herbicides, insecticides and pesticides. Include biological and botanical pesticides.</p>	<p>Exclude fertilizers reported earlier and seed treatments.</p>
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LINE 99	T-TYPE 3	TABLE 001
	OFFICE USE LINES IN TABLE	0319

NOTES	LINE	2	3	4	5	6	OR	7	8
		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 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 pesticides not listed in Respondent Booklet, specify --]

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

APPLICATION 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 air (<i>Aerial application</i>)	8 Foliar or directed spray
4 In seed furrow	9 Spot treatment
5 In Irrigation water	



LINE	9	10	11	12	13	14
	How was this product applied? <i>[Enter code from above.]</i>	How many acres in this field were treated with this product? ACRES	What was the number of times applied? NUMBER	What was the PRIMARY target pest for this application? <i>[Show Target Pest codes from Respondent Booklet.]</i>	Prior to this application was this years pest problem-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	Were these applications made by-- 1 Operator, Partner, Family member? 2 Custom applicator? 3 Employee / Other?
01	0311	0312 .__	0313	0314	0315	0316
02	0311	0312 .__	0313	0314	0315	0316
03	0311	0312 .__	0313	0314	0315	0316
04	0311	0312 .__	0313	0314	0315	0316
05	0311	0312 .__	0313	0314	0315	0316
06	0311	0312 .__	0313	0314	0315	0316
07	0311	0312 .__	0313	0314	0315	0316
08	0311	0312 .__	0313	0314	0315	0316
09	0311	0312 .__	0313	0314	0315	0316
10	0311	0312 .__	0313	0314	0315	0316
11	0311	0312 .__	0313	0314	0315	0316
12	0311	0312 .__	0313	0314	0315	0316
13	0311	0312 .__	0313	0314	0315	0316
14	0311	0312 .__	0313	0314	0315	0316

T-TYPE 0	TABLE 000	LINE 00
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E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

T-TYPE	TABLE	LINE
0	000	00

1. Now I have some questions about your pest management decisions and practices used on this field for the 2000 durum wheat crop. By pests, we mean WEEDS, INSECTS and DISEASES.

2. Let's begin with questions about scouting this field for pests.

1	YES=1	② [If YES, ask--] Who did the majority of the scouting for [column 1]-- 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? CODE
Was this durum wheat field scouted for--		
a. weeds?	1644	1645
b. insects?	1646	1647
c. diseases?	1648	

5. [If field SCOUTED, ask--]

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

CODE
1649

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

6. [Enumerator Action: Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?]

- YES - [Continue.] NO - [Go to item 9.]

7. Did you apply herbicides to this durum wheat field BEFORE weeds emerged? YES = 1 CODE
1650

[If item 7 = YES, ask--]

Did you decide to apply herbicides BEFORE weeds emerged on this durum wheat field based on--

- | | |
|---|------|
| a. a routine treatment for weed problems experienced in previous years? YES = 1 | 1651 |
| b. field mapping of previous weed problems? YES = 1 | 1652 |
| c. recommendations from a <i>chemical dealer</i> ? YES = 1 | 1653 |
| d. recommendations from an <i>independent crop consultant</i> ? YES = 1 | 1654 |

8. Did you apply herbicides to this durum wheat field AFTER weeds emerged? YES = 1 1655

[If item 8 = YES, ask--]

Did you decide to apply herbicides AFTER weeds emerged on the durum wheat field based on--

- | | |
|---|------|
| a. a routine treatment? YES = 1 | 1656 |
| b. type and/or density of weed(s) present? YES = 1 | 1657 |
| c. recommendations from a <i>chemical dealer</i> ? YES = 1 | 1658 |
| d. recommendations from an <i>independent crop consultant</i> ? YES = 1 | 1659 |

9. [Enumerator Action: Were INSECTICIDES used (pesticide product codes 1000-2000), in Section D, item 1 column 2?]

- YES - [Continue.] NO - [Go to item 11.]

10. Did you decide to apply insecticides to this durum wheat field based on-- CODE

a. a preventative schedule? YES = 1	1660
b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1	1661
c. standard practices or history of insect problems? YES = 1	1662
d. local information (<i>from other farmers, radio, TV, newsletters, etc.</i>) that the pest was or was not present? YES = 1	1663
e. your (the operator's) own determination of the infestation level? YES = 1	1664

OTHER PEST MANAGEMENT PRACTICES

	CODE
11. Was protection of beneficial organisms a factor in your pest control decisions for this field? YES = 1	1665
12. Did you apply or release any beneficial organisms to control pests in this field? . YES = 1	1666
13. Did you use water management practices, such as controlled drainage or irrigation scheduling, to control pests in this field? [<i>Exclude chemigation.</i>] YES = 1	1667
14. Did you use tilling, chopping, mowing, burning of field edges, lanes, ditches, roadways or fence lines to control pests in this field? YES = 1	1668
15. Did you clean equipment and implements after completing field work to reduce the spread of pests from this field? YES = 1	1669
17. Did you consider pest resistance when selecting which variety to plant in this field? YES = 1	1670
18. Did you treat the seed used in this field or purchase seed that was treated for disease control? YES = 1	1671
19. Did you adjust planting or harvesting dates to control pests? YES = 1	1672
20. Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field? YES = 1	1673
21. Did you alternate pesticides (<i>use pesticides with different mechanisms of action</i>) to keep pests from becoming resistant to pesticides in this field? YES = 1	1674
22. Did you adjust row spacing or plant density to control pests in this field? YES = 1	1675
23. Did you rotate crops on this field during the past 3 years to control pests? YES = 1	1676
26. Were grazing dates adjusted on this field to reduce or help control pests? YES = 1	1677
28. Did you do any other type(s) of pest management to control pests in this field? YES = 1	1678
a. [<i>If YES, ask--</i>]	
What did you do? [<i>List other activities.</i>]	
_____	1679
_____	1680
_____	1681

PEST MANAGEMENT INFORMATION

29. [Show Pest Management Information Sources code List.]

What was your primary outside source of information on pest management recommendations for the 2000 durum wheat crop?

PEST MANAGEMENT INFORMATION SOURCES
CODE LIST [Choose one.]

- 1 Extension Advisor, Publications or Demonstrations
(County, Cooperative or University)
- 2 Farm Supply or Chemical Dealer
- 3 Commercial Scouting Service
- 4 Independent Crop Consultant or Pest Control Advisor
- 5 Other Growers or Producers
- 6 Producer Associations, Newsletters or Trade Magazines
- 7 Electronic Information Services
(DTN, Internet, World Wide Web, etc.)
- 8 Other - (Specify _____)
- 9 None - Operator used no **outside** information source.

[Choose one source
and enter code.]

1682

PEST MANAGEMENT TRAINING

30. Have you (the operator) attended any training session on pest identification and management since October 1, 1999? YES = 1

CODE

1683

OFFICE USE

0340

2. Including custom operations, I need to list field work performed by machines on this field for the 2000 durum wheat crop. Please...

- ▶ Begin with the first field operation after harvest of previous crop, (If fallow during 1999, list operations starting with fall 1998.)
- ▶ List the operations in order **through seeding**, 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 Operator?

CHECK LIST

Include all field work using machines for--

Land Forming
 Tillage
 Preparing for Irrigation before seeding
 Planting

Exclude

Lime & Gypsum applications
 Fertilizers & Pesticides applications
 Operations that occur after planting
 Harvesting & Hauling

2 S E Q U E N C E N O.	3 What operation or equipment was used on this field?	4 [Record machine code from Respondent Booklet.] CODE	5 Who was the machine operator-- [Enter code from above.]	[If CUSTOM (column 5 is code 6) skip columns 9 & 10.]		11 In what month and year was this operation done? MM YY
				9 How many acres were covered? 1/	10 How many acres were covered per hour?	
				ACRES	ACRES PER HOUR	
0351		0352	0353	0357	0358	0359
0361		0362	0363	0367	0368	0369
0371		0372	0373	0377	0378	0379
0381		0382	0383	0387	0388	0389
0391		0392	0393	0397	0398	0399
0401		0402	0403	0407	0408	0409
0411		0412	0413	0417	0418	0419
0421		0422	0423	0427	0528	0429
0431		0432	0433	0437	0438	0439
0441		0442	0443	0447	0448	0449
0451		0452	0453	0457	0458	0459
0461		0462	0463	0467	0468	0469
0471		0472	0473	0477	0478	0479
0481		0482	0483	0487	0488	0489
0491		0492	0493	0497	0498	0499

1/ For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade, enter total HOURS, not acres. Then leave column 10 blank.

OFFICE USE
0032

CODE

8. **Was there (will there be) a yield monitor on the equipment used to harvest this durum wheat field?** YES = 1
- a. *[If YES, ask--]*
 Was (will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1
- (1) *[If item 8a is YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
9. **Regardless of when done, have the soil properties of this field been mapped (by grid or otherwise)?**
[Mapped is intended to mean that a GPS unit was used to geo-reference the location of different soil properties.] YES = 1
10. **Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 2000 growing season?** YES = 1
- a. *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
11. **Was variable rate technology (VRT) used for--**
- a. fertilization or liming? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
- b. seeding? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1
- c. pesticide applications? YES = 1
- (1) *[If YES, ask--]*
 Was a custom service/consultant hired for this activity? YES = 1

ACRES

1. How many acres in this field were irrigated for the 2000 durum wheat crop?

1696

[If field irrigated, continue. If NOT irrigated, go to Section J.]

2. Now, I have some questions about the irrigation of this field for the 2000 durum wheat crop.

a. What type of irrigation system was used to irrigate this field?

SYSTEM TYPE CODE

[Show System Type Codes. If more than 1 system used, enter Sytem Type Code for system covering the most field acres.]

1697

b. What was the total quantity of water applied to this field during the entire growing season?

INCHES PER ACRE

OR

TOTAL ACRE FEET

1698

1699

[Include ALL water used from both on-farm and off-farm sources.]

[If operator cannot provide item 2b, ask--]

(1) What is the total number of hours that water was applied to this field during the growing season?

TOTAL HOURS

1700

GALLONS PER MINUTE

(2) How many gallons per minute were applied?

1701

c. What percent of ALL water used to irrigate this field came from surface water sources?

PERCENT

1702

d. What was the number of times this field was irrigated during the growing season?

NUMBER

1703

3. Was any water purchased to irrigate this field?

(Include landlord's share and purchases from all sources.)

YES = 1

CODE

1704

a. [If water purchased, ask--]

What percent of the water used on this field was purchased?

PERCENT

1705

CODE

1706

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

YES = 1

11. Is the runoff from this field primarily--

RUNOFF CODES

- 1 retained at the end of the field with no re-use?
- 2 re-used to irrigate on the farm?
- 3 collected in evaporation ponds on the farm?
- 4 drains from the farm?
- 5 there is no runoff?

CODE

1707

OPERATOR and OPERATION CHARACTERISTICS

1. In 2000, was this operation's LEGAL STATUS--

- | | |
|---|--|
| 1 | Individual (Sole/family Proprietorship)? |
| 2 | A legal Partnership? |
| 3 | A Family-held Corporation? |
| 4 | A Non-family Corporation? |
| 5 | Other, Including estates, trusts and cooperatives?
(Describe _____) |

CODE

0035

2. In 2000, what was your (the operator's) major occupation?

- | | |
|---|--------------------|
| 1 | Farm or ranch work |
| 2 | Hired manager |
| 3 | Something else |
| 4 | Retired |

CODE

0036

3. What is the highest level of formal education you (the operator) have completed?

- | | |
|---|--|
| 1 | Less than high school |
| 2 | High school diploma or equivalency (GED) |
| 3 | Some college |
| 4 | Completed 4 year degree (BA or BS) |
| 5 | Graduate school |

CODE

0037

4. In what year did you (the operator) begin making day-to-day decisions for any farm/ranch?

YEAR

0038

5. Now I would like to classify the total acres operated in terms of total gross value of sales.

Considering--

- all crops sold,
- all livestock, poultry (including commercial broilers), and products (milk, eggs, etc.) sold,
- all sales of crops, livestock or poultry, produced under contract,
- all sales of any miscellaneous agricultural products,
- all government payments received,
- landlord's share of government payments and crops sold in 2000;

What code represents the total gross value of sales you expect for this operation in 2000?

- | | | | | |
|--------------------------|----|-----------------------|------------|--|
| <input type="checkbox"/> | 1 | Less than \$1,000 | | |
| <input type="checkbox"/> | 2 | \$ 1,000 -- | \$ 2,499 | |
| <input type="checkbox"/> | 3 | \$ 2,500 -- | \$ 4,999 | |
| <input type="checkbox"/> | 4 | \$ 5,000 -- | \$ 9,999 | |
| <input type="checkbox"/> | 5 | \$ 10,000 -- | \$ 19,999 | |
| <input type="checkbox"/> | 6 | \$ 20,000 -- | \$ 24,999 | |
| <input type="checkbox"/> | 7 | \$ 25,000 -- | \$ 39,999 | |
| <input type="checkbox"/> | 8 | \$ 40,000 -- | \$ 49,999 | |
| <input type="checkbox"/> | 9 | \$ 50,000 -- | \$ 99,999 | |
| <input type="checkbox"/> | 10 | \$ 100,000 -- | \$ 249,999 | |
| <input type="checkbox"/> | 11 | \$ 250,000 -- | \$ 499,999 | |
| <input type="checkbox"/> | 12 | \$ 500,000 -- | \$ 999,999 | |
| <input type="checkbox"/> | 13 | \$ 1,000,000 and over | | |

CODE

0039

6. Of the farm income reported, which of these categories represents the largest portion of the gross income from the operation?

CODE

0040

FARM TYPE CODES

1	GRAINS and OILSEEDS	8	BEEF CATTLE
2	TOBACCO	9	DAIRY
3	COTTON	10	HOGS
4	VEGETABLES and MELONS	11	SHEEP, GOATS, WOOL and MOHAIR
5	FRUIT TREE, NUTS and BERRIES	12	EQUINE
6	NURSERY, GREENHOUSE and FLORICULTURE	13	POULTRY and EGGS
7	OTHER CROPS	14	AQUACULTURE
		15	OTHER ANIMALS

CONCLUSION

LOCATION OF SELECTED FIELD

1. I need to locate the selected field of durum wheat on this map.

What county is the selected durum wheat field in?
 Field description

COUNTY NAME	OFFICE USE COUNTY FIPS CODE
	0010

2. [ENUMERATOR ACTION:

*Mark map to indicate where the selected durum wheat field is located.
 Be sure the "X" marked on map is in county identified above.]*

4. 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 <http://www.usda.gov/nass/>) YES = 1

CODE
0099

RECORDS USE

5. [Did respondent use farm/ranch records to report--]

a. [fertilizer data?] YES = 1
 b. [pesticide data?] YES = 1

CODE
0011
0012

SUPPLEMENTS USED

6. [Record the total number of each type of supplement used to complete this interview.]

NUMBER	
FERTILIZER APPLICATIONS	0041
PESTICIDE APPLICATIONS	0042
FIELD OPERATIONS	0043

RESPONDENT

- 1 OPERATOR/MANAGER/PARTNER
- 2 SPOUSE
- 3 ACCOUNTANT/BOOKKEEPER
- 4 OTHER

Respondent's name

Phone ()

CODE
0101

ENDING TIME [MILITARY]

DATE:

ENUMERATOR NAME

MILITARY TIME H H M M
0005
MM DD YY
0007
_____ 00
ENUMERATOR ID
0098
EVALUATION
0100