AGRICULTURAL RESOURCE MANAGEMENT STUDY
DURUM WHEAT PRODUCTION PRACTICES REPORT
for 1998

Form Approved
O.M.B. Number 0535-0218
Approval Expires 9/30/99
Project Code 906

Phase II

VERSION 07	POID _ _ _ _ _ _ _ _ _	TRACT ___ ___	SUBTRACT ___ ___	T-TYPE 0	TABLE 000	LINE 00

CONTACT RECORD			R CODES	
DATE	TIME	NOTES	3 - COMP 5 - OUT OF SCOPE 8 - REF 9 - INAC./INCOMPL.	0910
			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 [*MILITARY*] . . . .   0004 _ _ _ _

☐ [*Verify/update label.*]

[***ENUMERATOR NOTE:***
If box code 1, complete Screening Supplement.
If box is blank, begin Section A.]

SCREENING BOX
0006

Office Use Comp Code   0008

PARTNERS' STRATUM 182	0925 _ _ _	0926 _ _ _	0927 _ _ _	0928 _ _ _

PARTNERS:

POID _ _ _ _ _ _ _ _ _	POID _ _ _ _ _ _ _ _ _
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER
POID _ _ _ _ _ _ _ _ _	POID _ _ _ _ _ _ _ _ _
PARTNER NAME	PARTNER NAME
ADDRESS	ADDRESS
CITY STATE ZIP PHONE NUMBER	CITY STATE ZIP PHONE NUMBER

A   DURUM WHEAT FIELD SELECTION   A

1. **How many acres of durum wheat did this operation plant for the 1998 crop year?**
        [▸   *If no acres planted, review Phase I Information Form. Make notes, then go to item 3 of Conclusion, back page*. . . . .

   TOTAL PLANTED ACRES

   0024

3. I will follow a simple procedure to make a random selection from the durum wheat fields planted for the 1998 crop.

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

   TOTAL NUMBER OF FIELDS

   0029

   [*If only 1 field, 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, list only the 18 fields closest to your permanent residence.*)
   - ▸   [*If respondent is unable to identify or describe the fields, use a Field Selection 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

OFFICE USE

0031

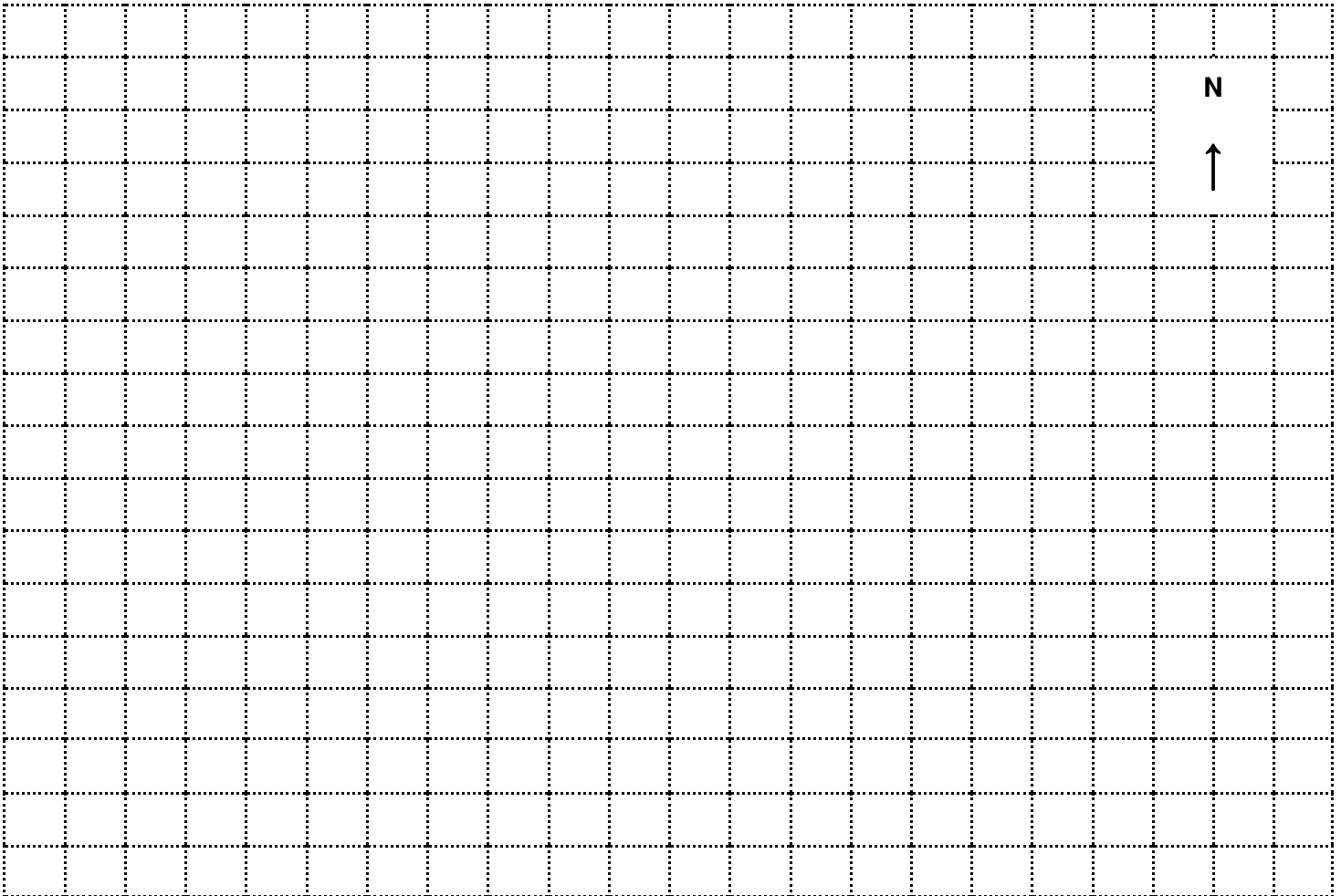# A   DURUM WHEAT FIELD SELECTION   A

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.*] . . . .

RECORD SELECTED NUMBER HERE

0030

6. **The field selected is (*field name/number/description*).**
During this interview, my questions will be about this selected durum wheat field.
[*Be sure the operator can identify the selected field.*]

N

↑

B **FIELD CHARACTERISTICS---**SELECTED FIELD **B**

ACRES

1. **How many acres of durum wheat did this operation plant in the selected field in 1998?** . . . .

1601 •___

2. **How many acres in this field were--**

ACRES

a. owned by this operation? . . . .
1602 •___

b. rented for CASH? . . . .
1603 •___

c. SHARE rented? . . . .
1604 •___

d. used RENT-FREE? . . . .
1605 •___

5. [*If any acres in field RENTED, ask*--]

YEAR

   What year did you start renting this field? . . . .
1606 ___ ___ ___ ___

CODE

a. Do you EXPECT to be renting this same field for the next 5 years (through the 2003 crop year)? . . . . **YES = 1**
1607

7. **When planted, was this field planted with the intention of --** . . . .

1 Harvesting for grain?
2 Grazing only?
3 Other uses?
(*Specify_____*) . . . .

CODE
1608

10. **On what date was this field planted?** . . . .

MM DD YY
1609 ___ ___ ___ ___ ___ ___

UNIT CODE
1=POUNDS
2=CWT.
4=BUSHELS
25=KERNELS/SEEDS

UNITS PER ACRE

11. **What was the seeding rate per acre the first time this field was seeded?** . . . .
1610 •___   1611

13. **Was the source of the durum wheat seed--**

1 Purchased? - [*Enter code 1; continue.*]
2 Homegrown or traded? - [*Enter code 2; continue.*]
3 Both? - [*Enter code 3; continue.*] . . . . .

CODE
1614

B   FIELD CHARACTERISTICS---SELECTED FIELD   B

CODE

20. **Has harvest of this field been completed?** . . . . **YES = 1**   `1618`

21. **Now I need information about the acres harvested (or to be harvested) and the yields from this durum wheat field.**

1 **How many acres in the durum wheat field were** (will be)--		2 **What yield per acre did you get** (do you expect to get) **for--**	3 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHELS
	ACRES	UNITS PER ACRE	
a. harvested for grain?	1619 • ___	1620 • ___	1621
b. harvested for silage or green chop?	1622 • ___	1623 • ___	**TONS**
c. harvested for seed for planting?	1624 • ___	1625 • ___	1626
d. abandoned?	1627 • ___		
e. other use?	1628 • ___		

CROP CODE LIST *for item 25* PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay 190 Barley 3 Dry Beans 85 Canola 310 Clover 6 Corn for grain 5 Corn for silage	281 Cotton, Upland 282 Cotton, Pima 302 CRP 311 Grasses other than clover 11 Hay, all other 94 Mustard 15 Oats	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*

25. **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 on this field?**
	CROP NAME	CROP CODE	YES=1
a. FALL of 1997?		1629	1630
b. SPRING/SUMMER of 1997? . .		1631	1632
c. FALL of 1996?		1633	1634
d. SPRING/SUMMER of 1996? . .		1635	1636
e. FALL of 1995?		1637	1638
f. SPRING/SUMMER of 1995? . .		1639	1640

26. [*If most recent crop was SMALL GRAIN, (barley, oats, rye or wheat) ask*--]   **CODE**

     Was crop residue removed from this field by baling or removing straw, burning, etc.? . . . . **YES = 1**   `1641`

B   FIELD CHARACTERISTICS---SELECTED FIELD   B

1		2 In what year were the (*column 1*)'s **established in this field?**	3 How much of the cost of building the (*column 1*)'s **was paid directly by you?**
27. Did your land-use practices for this field include--	CODE	YEAR	PERCENT
a. terraces? . . . . **YES = 1**	1642	1643 ___ ___ ___ ___	1644 ___ ___ ___
b. temporary or permanent levees? . **YES = 1**	1645	1646 ___ ___ ___ ___	1647 ___ ___ ___
c. grassed waterways? . . . . **YES = 1**	1648	1649 ___ ___ ___ ___	1650 ___ ___ ___
d. contour farming? . . . . **YES = 1**	1651		
e. strip cropping? . . . . **YES = 1**	1652		
f. underground outlets such as tile drainage? . . . . **YES = 1**	1653		
g. other drainage channels or diversions? (**Include** water furrows) . . . . **YES = 1**	1654		

CODE

28. Has the Natural Resource Conservation Service or NRCS classified any part of this field as "Highly Erodible"? . . . . **YES = 1** | 1655 |

29. Have you been notified by NRCS that this field contains a wetland? . . . . **YES = 1** | 1656 |

30. Have you received assistance from NRCS in 1998 for planning or installation of conservation practices or systems on this field? . . . . **YES = 1** | 1657 |

31. Have you received financial cost-sharing assistance from the Farm Service Agency (*formerly ASCS*) in 1998 for installation of conservation practices or systems on this field? . . . . **YES = 1** | 1658 |

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

	CODE	EDIT TABLE
1. **Were commercial FERTILIZERS applied to this field for the 1998 durum wheat crop?** [If none, go to item 5.] . . . . YES=1

CODE	EDIT TABLE
1659	0201

TTYPE	TABLE
2	001

CHECK LIST

INCLUDE
Custom Applied Fertilizers
Fertilizer applied in the fall of 1997 and
those applied earlier if this field was fallow in 1997

EXCLUDE
Micronutrients
Manure

LINE 99	OFFICE USE LINES IN TABLE	0213

LINE	2 ➜ ➜ ➜ MATERIALS USED [Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]			3 What quantity was applied per acre? [Leave this column blank if actual nutrients were reported.]	4 [Enter material unit code.] 1 Pounds 12 Gallons 19 Pounds of actual nutrients	5 When was this applied? 1 Before seeding (fall) 2 Before seeding (spring) 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?
	N Nitrogen	P₂O₅ Phosphate	K₂O Potash					ACRES
01	0205	0206	0207	0208	0209	0210	0211	0212 •___
02	0205	0206	0207	0208	0209	0210	0211	0212 •___
03	0205	0206	0207	0208	0209	0210	0211	0212 •___
04	0205	0206	0207	0208	0209	0210	0211	0212 •___
05	0205	0206	0207	0208	0209	0210	0211	0212 •___
06	0205	0206	0207	0208	0209	0210	0211	0212 •___
07	0205	0206	0207	0208	0209	0210	0211	0212 •___
08	0205	0206	0207	0208	0209	0210	0211	0212 •___

T-TYPE	TABLE	LINE
0	000	00

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

T-TYPE	TABLE	LINE
0	000	00

4. [*If Nitrogen was applied, ask--*]
Did you use any product to slow the breakdown of Nitrogen on this field?
(For example a nitrification inhibitor such as N-Serve or urease inhibitor such as Agrotin) . . . . **YES = 1**

CODE
1660

5. **Was a--**
  a. **soil test** performed on this field in 1997 or 1998
for the 1998 durum wheat crop? . . . . **YES = 1**

CODE
1661

  b. **plant tissue test** performed on this field in 1997 or 1998
for the 1998 durum wheat crop? . . . . **YES = 1**

CODE
1662

6. **Was a Nitrogen soil test performed on this field?**

  ☐ **YES** - [*Enter code 1 and continue.*]   ☐ **NO** - [*Go to item 7.*] . . . .

CODE
1663

  a. **Was the amount of Nitrogen applied to this field--** . . . .

1	More than the amount recommended?
2	Less than the amount recommended?
3	Exactly the amount recommended?

CODE
1664

7. **Is lime ever applied to this field?**

  ☐ **YES** - [*Enter code 1 and continue.*]   ☐ **NO** - [*Go to item 8.*]

CODE
1665

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

YEARS
1666

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

TONS PER ACRE
1667
•__ __

C   FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD   C

8. **Was manure applied to this field for the 1998 durum wheat crop?**
   (***Exclude*** commercially prepared manure.)

   CODE

   1668

   ☐ **YES** - [*Enter code 1 and continue.*]   ☐ **NO** - [*Go to **Section D**.*] . . . .

   ACRES

   1669   •__

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

   TOTAL TONS   OR   **TOTAL GALLONS**

   1670   •__ __   1671

   b. What was the total amount of manure applied to this field? . . . .

   c. 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

   1672

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

1	Beef cattle?
2	Dairy cattle?
3	Hogs?
4	Sheep?
5	Poultry?
6	Other?

   . . . .

   CODE

   1673

   e. Was the manure--

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

   . . . .

   CODE

   1674

D   **PESTICIDE APPLICATIONS ---** SELECTED FIELD   D

1. Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 1998 durum wheat crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1998 durum wheat crop? . . . . YES=1

[*Probe for applications made in the fall of 1997* (*and those made earlier if this field was fallow*).]

[*If none, go to Section* **E**.]

CODE
1678

OFFICE USE EDIT TABLE
0301

Check List

Include
☐ Defoliants ☐ Fungicides
☐ Herbicides ☐ Insecticides
☐ All other pesticides

Exclude
☐ Fertilizers reported earlier
☐ Seed Treatments

T-TYPE	TABLE
3	**001**

LINE 99	OFFICE USE LINES IN TABLE	0319

NOTES	L I N E	2 What products were applied to this field? [*Show product codes from Respondent Booklet.*]	3 Was this product bought in liquid or dry form? [*Enter L or D.*]	4 Was this part of a tank mix? [*If tank mix, enter line number of first product in tank mix.*]	5 When was this applied? 1 BEFORE planting 3 AT planting 4 AFTER planting	6 How much was applied per acre per application?	OR 7 What was the total amount applied per application in this	8 [*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

T-TYPE	TABLE	LINE
0	**000**	**00**

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.*]
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

D   **PESTICIDE APPLICATIONS ---** SELECTED FIELD   **D**

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 (Aerial application)	8 Foliar or Directed spray
4 In Seed Furrow	9 Spot treatments
5 In Irrigation water	

↓

LINE	9 How was this product applied? [Enter code from above.]	10 How many acres in this field were treated with this product? ACRES	11 What was the number of times applied? NUMBER	12 What was the PRIMARY target pest for this application? [Use Target Pest codes from Respondent Booklet.]	13 This year, was the problem of this pest-- 1 worse than normal? 3 normal? 5 less than normal? 7 unknown? 9 not applicable?	14 Were these applications made by-- 1 Operator, Partner or 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

Notes and Calculations:

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 1998 durum wheat crop. By pests, we mean WEEDS, INSECTS and DISEASES.**

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

1 **Was this durum wheat field scouted for--** YES=1	**②** [If **YES**, ask--] **Was most of the scouting for** [column 1] **done by--** 1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout? **CODE**
a. weeds? 1679	1680
b. insects? 1681	1682
c. diseases? 1683	

5. [*If field was 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
   1684

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 11.*]

---

7. **Did you apply herbicides to the field BEFORE weeds emerged?**

    ☐ **YES** - [*Enter code 1 and continue.*]   ☐ **NO** - [*Go to item 9.*] . . . . **YES = 1**

CODE

1685

8. **Did you decide to apply herbicides BEFORE weeds emerged based on--**

    a. a routine treatment for weed problems experienced in previous years? . . . . . **YES = 1**

1686

    b. field mapping of previous weed problems? . . . . **YES = 1**

1687

    c. recommendations from a *chemical dealer*? . . . . **YES = 1**

1688

    d. recommendations from an *independent crop consultant*? . . . . **YES = 1**

1689

9. **Did you apply herbicides to this field AFTER weeds emerged?**

    ☐ **YES** - [*Enter code 1 and continue.*]   ☐ **NO** - [*Go to item 11.*] . . . . **YES = 1**

1690

10. **Did you decide to apply herbicides AFTER weeds emerged based on--**

    a. a routine treatment? . . . . **YES = 1**

1691

    b. type and/or density of weed(s) present? . . . . **YES = 1**

1692

    c. recommendations from a *chemical dealer*? . . . . **YES = 1**

1693

    d. recommendations from an *independent crop consultant*? . . . . **YES = 1**

1694

---

11. **[Enumerator Action:** *Were* **INSECTICIDES** *used (**pesticide product codes 1000-1999**),* **Section** D, *item 1 column 2*?

    ☐ **YES** - [*Continue.*]   ☐ **NO** - [*Go to item 14.*]

---

12. **Did you decide to apply insecticides to this durum wheat field based on--**

    a. a preventative schedule? . . . . **YES = 1**

1695

    b. scouting data compared to University or Extension guidelines for infestation thresholds? . . . . **YES = 1**

1696

    c. standard practices or history of insect problems? . . . . **YES = 1**

1697

    d. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? . . . . **YES = 1**

1698

    e. your (the operator's) own determination of the infestation level? . . . . **YES = 1**

1699

E   PEST MANAGEMENT PRACTICES--SELECTED FIELD   E

[*If **YES,** ask*--]
Was your main reason for doing this to control--
1   WEEDS
2   INSECTS
3   BOTH

14. **Were (was)--**

    CODE

a. planting or harvesting dates adjusted on this field to reduce (or control) pests? . . . . **YES=1** | 1701 | . . . . | 1702

b. pesticides alternated from year to year on this field to control pests? (*Use pesticides from different families*) . . . . **YES=1** | 1703 | . . . . | 1704

c. a biological soil analysis done on this durum wheat field to detect the presence of soil pests, such as insects, diseases or nematodes? . . . . **YES= 1** | 1705

d. beneficial insects considered in selecting and using pesticides on this field? . . . . **YES= 1** | 1706

e. beneficial insects purchased and released in the durum wheat field? . . . . **YES= 1** | 1707

15. **Were (was)--**

    CODE

a. crops rotated on this field during the last 3 years to control pests? . . . . **YES=1** | 1710 | . . . . | 1711

b. pest resistant seed varieties used? . . . . **YES=1** | 1712

c. seed treatments done for disease control? . . . . **YES=1** | 1713

    CODE

d. row spacing or plant density adjusted on this field to control pests? . . . . **YES=1** | 1714 | . . . . | 1715

e. practices such as tilling, mowing, burning, and/or chopping of field edges, lanes or roadways from this field used to keep pests from spreading? . . . . **YES=1** | 1716 | . . . . | 1717

f. water management practices, such as controlled drainage or irrigation scheduling used on this field to control pests? [**Exclude** chemigation.] . . . . **YES=1** | 1718 | . . . . | 1719

g. grazing dates adjusted on this field to reduce or help control pests? . . . . **YES=1** | 1720

    CODE

h. cleaning the harvesting and tillage implements from this field done to reduce the spread of pests? . . . . **YES=1** | 1721 | . . . . | 1722

E   PEST MANAGEMENT PRACTICES--SELECTED FIELD   E

17. [*Show Pest Management Information Sources codes in Respondent Booklet.*]

What was your primary outside source of information on pest management recommendations for the 1998 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	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
9	None

[*Choose one and enter code.*]

1723

18. **Have you (the operator) attended any training session on pest identification and management since October 1, 1997?** . . . . YES = 1

CODE

0338

19. **Have you (the operator) completed courses leading to certification for applying "Restricted Use" pesticides?** . . . . YES = 1

CODE

0339

OFFICE USE

0340

F   FIELD OPERATIONS --- SELECTED FIELD   F

2. **Including custom operations, I need to list field work performed by machines on this field for the 1998 durum wheat crop. Please...**
   - ▸ Begin with the first field operation after harvest of previous crop, (*If fallow during 1997, list operations starting with fall 1996.*)
   - ▸ List the operations in order through seeding, and
   - ▸ Maintain the order of tandem hook-ups.

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
- ☐ Harvesting **&** Hauling

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

2 SEQUENCE No.	3 What operation or equipment was used?	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 was this operation done? MM YY
				9 How many acres were covered? 1/ ACRES	10 How many acres were covered per hour? 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 .___	0428 .___	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 ___ ___
0501		0502	0503	0507 .___	0508 .___	0509 ___ ___
0511		0512	0513	0517 .___	0518 .___	0519 ___ ___
0521		0522	0523	0527 .___	0528 .___	0529 ___ ___

OFFICE USE
0347

1/ *For backhoes, disk border maker, ditch closer, ditcher, levee-plow disk, quarter drain machine and rear mounted blade , enter total HOURS, and leave column 10 blank.*

F   **FIELD OPERATIONS ---** SELECTED FIELD   **F**

CODE

8. **Was there (will there be) a yield monitor on the equipment used to harvest this durum wheat field?** . . . . **YES = 1**   1727

     [*If YES, ask--*]

     a.   Was (will there be) a yield map produced from this harvest using information from the yield monitor? . . . . **YES = 1**   1728

9. **Regardless of when done, has this field been soil grid-sampled and grid-mapped?** . . . . **YES = 1**   1729

10. **Was variable rate technology (VRT) used for--**

     a.   fertilization or liming? . . . . **YES = 1**   1730

     b.   seeding? . . . . **YES = 1**   1731

     c.   pesticide applications? . . . . **YES = 1**   1732

G   IRRIGATION---SELECTED FIELD   G

ACRES

1. **How many acres in this field were irrigated for the 1998 durum wheat crop?**
    [*If none, go to Conclusion.*] . . . .

1733 ・___

2. **Now, I have some questions about irrigation systems and water used on this field for the 1998 durum wheat crop.**

    a. What type(s) of irrigation system(s) were used to irrigate this field?
        [*Use **System Type Codes** . Enter **System Type Code** for system covering the most field acres.*] . . . .

    SYSTEM TYPE CODE

    1734

    b. What was the total number of inches of water per acre applied to this field during the entire growing season?
        (***Include** ALL water used from both on-farm and off-farm sources.*) . . . .

    INCHES PER ACRE

    1735

    (1) [*If operator cannot answer item 2b, ask--; else go to item 2c.*] What is the total number of hours that water was applied to this field during the growing season? . . . .

    TOTAL HOURS

    1736

    (2) How many gallons per minute were applied? . . . .

    GALLONS PER MINUTE

    1737

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

    PERCENT

    1738

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

    NUMBER

    1739

3. **Was any water purchased to irrigate this field?**
    (***Include** landlord's share and purchases from all sources.*) . . . . **YES=1**

    CODE

    1740

    [*If YES, ask--*]

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

    PERCENT

    1741

7. **Were wells used to supply irrigation water for this field?** . . . . **YES=1**

    CODE

    1742

    [*If YES, ask--*]

    e. What was the total cost for fuel and power used to pump irrigation water from these wells in 1998? . . . .

    TOTAL DOLLARS

    1743

CONCLUSION

LOCATION OF SELECTED FIELD

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

   OFFICE USE-- COUNTY FIPS CODE

   COUNTY NAME

   c. **What county is the selected durum wheat field in?** . . . .

   | 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** | 0011 |

   b. [**pesticide** *data?*] . . . . **YES = 1** | 0012 |

SUPPLEMENTS USED

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

   NUMBER

   FERTILIZER APPLICATIONS | 0020 |

   PESTICIDE APPLICATIONS | 0021 |

   FIELD OPERATIONS | 0022 |

RESPONDENT

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

. . . .

CODE
| 0101 |

Respondent's name
[*if code 3 or 4*] . . . . _____

Phone . . . . (_____) _____

ENDING TIME [*MILITARY*] . . . .

MILITARY TIME
| 0005 |
__ __ __ __

DATE: . . . .

MM DD YY
| 0007 |
__ __ __ __ __ __

ENUMERATOR NAME _____ . . . .

ENUMERATOR ID
| 0098 |

EVALUATION
| 0100 |