

# AGRICULTURAL RESOURCE MANAGEMENT STUDY DURUM WHEAT PRODUCTION PRACTICES REPORT for 1997

**ID/SEGMENT** 

**TRACT** 

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

SUBTRACT T-TYPE TABLE LINE

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

VERSION STRATUM

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	CONTA	CT RECORD	)		]	R COD		0910		
DATE	TIME		NOTES			5 - SCRE 8 - REF	ENOUT	0910		_
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We are collectin as possible. Au of the U.S. Code the United State	elf, and ask for the general information on thority for collection. This information is. Response to be you to refer to you	oractices to proportion of information will be used for this survey is continuous.	oduce durum on on the Duro or economic a confidential an a during the in	wheat and not um Wheat Pronalysis and to divoluntary.  terview.  BEGINNING  [Name, a and updates	eed your oduction compile TIME ddress a ated if ne	[MILITAR] and partner ecessary.]	/] s verified	0004		
			•	ENUMERA 1, complete t If box is not t	he Scre	ening Sup	plement.	0006	NING BO	
PARTNERS:	LS	F ID		-			LSF ID			
PARTNER NAME				PARTNER N	VAME					
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CITY	STATE ZIP	PHONE N	IUMBER	CITY	3	STATE		PHONE NU	IMBER	
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CITY	STATE ZIP	PHONE N	IUMBER	CITY	Ç	STATE	ZIP I	PHONE NU	IMBER	
		Office Use Comp Code	0912	Partners' Stratum 182	0925	0926	0927	09	28	1

# A DURUM WHEAT FIELD SELECTION

•	١
-	-

1.	How many acres of durum wheat did this operation <b>plant</b> [If no acres planted, review information on Phase I Information Make notes, then go to Conclusion, back page.]	in 1997? Form.	TOTAL PLANTED ACRES 0117
3.	I will follow a simple procedure to make a random selectidurum wheat fields planted for the 1997 crop.	on from the	NUMBER
	What is the TOTAL number of durum wheat fields that were planted on this operation?		
4.	Please list these fields according to identifying name each field. Then I will tell you which field has been s  (If there are more than 18 fields, list only the 18 fields clos)  [If respondent is unable to identify or describe the fields, unable to identify or describe the fields.	Inumber or describe elected. est to your permanent residence.) se a Field Selection Grid on next page.]	[If only 1 field, go to item 5.]
FIE	ELD NAME, NUMBER OR DESCRIPTION	FIELD NAME, NUMBER OR DESC	CRIPTION
1		10	
2		11	
3		12	
4		13	
5		14	
6		15	
7		16	
8		17	
9		18	

OFFICE USE

0124

Α	<b>DURUM WHEAT FIE</b>	<b>ELD SELECTION</b>
<i>1</i> \	DOILON VVIIDAL II	<u> olle o i i o i i</u>

### APPLY "RANDOM NUMBER" LABEL HERE

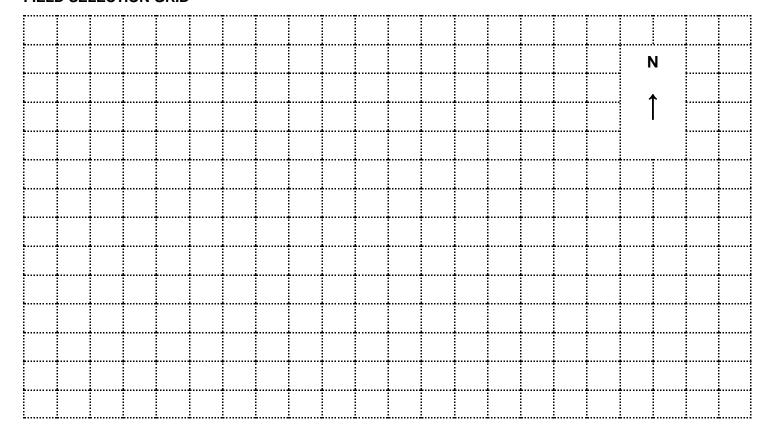
[ENUMERATOR ACTION: Circle the pair of numbers on the above label associated with the last numbered field in item 4. Select the field according to the number you circled on the label, and record the selected number.

0123

RECORD SELECTED **NUMBER HERE** 

The field selected is (field nath@////umfiel//desteription). For most of the interview, my questions will be about **this field**. [Be sure the operator can identify the selected field.]

### FIELD SELECTION GRID



В

# B FIELD CHARACTERISTICS---SELECTED FIELD

вотн

		ACRES
1.	How many acres of durum wheat did this operation plant in the selected field in 1997?	1421
2.	How many acres in this field were	
	a. owned by this operation?	1422
	b. rented for CASH?	1423
	c. SHARE rented?	1424
	d. used <b>RENT-FREE</b> ?	1425
8.	Was a no-till system used to prepare and plant this durum wheat field?	CODE
	☐ YES - [Enter code 1 and continue.] ☐ NO - [Go to item 9.]	1426
	a. How many consecutive years has no-till been used on this field	YEARS
	(regardless of which crop was planted or grown)?  [Enter 1 if current year only.]	1427
		MM DD YY
9.	On what date was this field planted?	1428
	UNITS PER AC	UNIT CODE 1=POUNDS 2=CWT. 4=BUSHELS
10.	What was the seeding rate per acre the	1430
	first time this field was seeded?	•
12.	. Was the source of the durum wheat seed	
	1 PURCHASED	CODE
	2 HOMEGROWN OR TRADED	1433

	_	
		2
	-	š
		a

		CODE
18. Has harvest of this field been completed?	YES = 1	1438

19. 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) harvested for[column 1]	What yield per acre did you get (do you expect to get) for	4 UNIT CODE 1=POUNDS 2=CWT 3=TONS 4=BUSHELS 5=BARRELS
a.	grain?	0024	0025	0026
b.	silage or green chop?	0027	0028	TONS
C.	seed for planting?	0030	0031	0032
h.	abandoned?	0045		
i.	other use?	0046		

CROP CODE LIST for item 20 PREVIOUSLY PLANTED CROP was							
1 Alfalfa hay	201 Cotton, Upland	16 Peanuts	26 Soybeans				
190 Barley	202 Cotton, Pima	17 Dry Peas	28 Sugarbeets				
3 Dry Beans	302 CRP	20 Potatoes	30 Sunflowers				
85 Canola	311 Grasses other than clover	21 Rice	142 Vegetables				
310 Clover	11 Hay, all other	22 Rye	163 Wheat, durum				
6 Corn for grain	94 Mustard	98 Safflower	164 Wheat, other spring				
5 Corn for silage	15 Oats	25 Sorghum for grain	165 Wheat, winter				
-		24 Sorghum for silage	318 Fallow or Idle (diverted)				

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

1	What crop w on this [colu	3 Was this crop irrigated on this field?	
	NAME	CODE	YES=1
a. FALL of 1996?		0072	0073
b. SPRING/SUMMER of 1996?		0074	0075
c. FALL of 1995?		0076	0077
d. SPRING/SUMMER of 1995?		0078	0079
e. FALL of 1994?		0080	0081
f. SPRING/SUMMER of 1994?		0082	0083

21.	[If mo	st recent crop in item 20 was SMALL GRAIN, (barley, oats, rye or wheat) ask]		CODE
	W by	as crop residue removed from this field baling or removing straw, burning, etc.?	YES = 1	1439
22.	Did yo	ur land-use practices for this field include		
	a.	terraces?	YES = 1	1440
	b.	contour farming?	YES = 1	1441
	C.	temporary or permanent levees?	YES = 1	1442
	d.	grassed waterways?	YES = 1	1443
	e.	strip cropping?	YES = 1	1444
	f.	underground outlets such as tile drainage?	YES = 1	1445
	g.	other drainage channels or diversions? ( <i>Include</i> water furrows)	YES = 1	1446
23.	Has th	e Natural Resource Conservation Service		1447
	OI	NRCS classified this field as "Highly Erodible"?	YES = 1	
24.	Have	you been notified by NRCS that this field contains a wetland?	YES = 1	1448

### **NOTES and CALCULATIONS:**

# C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

1.	What commercial FERTILIZERS were app	lied to	this field for the	)		EDIT TABLE
	1997 durum wheat crop? [If none, go to item 6.]					0201
				_	TTYPE	TABLE
1	CHECK LIST			! [	2	001
Ĭ	Include		Exclude	İ		
	Custom Applied Fertilizers		Micronutrients			
	Fertilizer applied in the fall of 1996 and those applied earlier if this field was fallow in 1996.		Manure _ — — — — — -	99	OFFICE USE LINES IN TABLE	0213

LINE	[Enter p	2 → → → MATERIALS USED  [Enter percentage analysis or actual pounds of plant nutrients applied per acre.]		3 What quantity was applied per acre? [Leave this	4 [Enter material unit code.]	5 When was this applied? 1 BEFORE SEEDING (FALL) 2 BEFORE SEEDING (SPRING) 3 AT 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	7 How many acres were treated in this application ?
	<b>N</b> Nitrogen	<b>P₂O</b> ₅ Phosphate	<b>K₂O</b> Potash	column blank if actual nutrients were reported.]		4 AFTER SEEDING	6 Chisel, injected or knifed in 7 Banded/Sidedressed in or over row 8 Foliar or directed spray 9 Spot treatments	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-	TABLE	LINE
0	000	00

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

		T- 0	TABLE 000	LINE 00
6.	Was a a. soil test performed on this field in 1996 or 1997 for the 1997 durum wheat crop?	YES		CODE
-	b. plant tissue test (performed on this field in 1996 or 1997 for the 1997 durum wheat crop)?			
7.	Was a Nitrogen soil test performed?  YES - [Enter code 1 and continue.] NO - [Go to item 9.]		1454	
	<ul> <li>a. Was the amount of Nitrogen applied to this field</li></ul>		1455	
9.	Is <b>lime</b> ever applied to this field?  State of the Amount Recommended is the second of the second o	<del>1?</del>	1450	
	<ul> <li>☐ YES - [Enter code 1 and continue.]</li> <li>☐ NO - [Go to Section D.]</li> <li>a. On average, how many years are there between applications</li> </ul>		1460	EARS
	<ul><li>of <b>lime</b> to this field?</li></ul>			PER ACRE

D

# PESTICIDE APPLICATIONS --- SELECTED FIELD

1. Including let's list	Including both custom applications and applications made by this operation, let's list all the chemicals used on this field for the 1997 durum wheat crop.								
Were any	Were any herbicides, insecticides, fungicides or other chemicals used on the this field for the 1997 durum wheat crop?								
[Probe for	appl	lications made in <u>t</u>	<u>he</u> fall of 19:	96 (and those m	ade earlier if this fiel	ld was fallow).]	Ľ	0301	
<u>└</u> YES_	- [C		NO - [G	Go to Section <b>E</b>	.]		T-TYPE	TABLE	
Include		C	HECK LIST	Exclude			3	001	
Defoliants		Fungicides		Fertilizers reporte			3	001	
Herbicides All other pe		Insecticide	S	Seed Treatments	·		FFICE USE ES IN TABLE	0319	
				. – – – –		OO LIIV	LO IN TABLE		
		2	3	4	5	6 C	PR 7	8	
NOTES	LINE	What products were applied to this field? [Use 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	When was this applied? 1 BEFORE PLANTING 3 AT PLANTING 4 AFTER PLANTING	How much was applied	What was	[Enter unit code.] 1 POUNDS 12 GALLONS 13 QUARTS 14 PINTS 15 OUNCES 30 GRAMS	
	01	0305		in tank mix.]	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	
[For pesticides	(He	listed in Responde <b>Pesticide Type</b> erbicide, Insectici Fungicide, etc.)	E	specify] PA No. or Trad and Formula		<b>n Purchase</b> d quid or Dry)	[Ask only	Purchased if EPA No. e reported.]	

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

- 1 Broadcast, ground without incorporation 2 Broadcast, ground with incorporation 3 Broadcast, by air (*Aerial application*) 4 In Seed Furrow 5 In Irrigation water

- 6 Chisel/Injected or Knifed in 7 Banded in or Over Row 8 Foliar or Directed spray 9 Spot treatments

	н	
	н	
	н	

L-ZE	9 How was this product applied?  [Enter code from above.]	10 How many acres in this field were treated with this product?	11 What was the number of times applied?	What was the PRIMARY target pest for this application? [Use Target Pest codes from Respondent Booklet.]	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

T-TYPE	TABLE	LINE
0	000	00

## PEST MANAGEMENT PRACTICES--SELECTED FIELD

T-TYPE	TABLE	LINE
0	000	00

1.	Now I have some questions about p	est management decisions and	practices used on this	field for the 1997
	durum wheat crop. By pests, we in	nean WEEDS, INSECTS and DI	ÍSEASES.	

2	)	l ∆t'c	hagain	with	questions	ahout	· ecoutina	thic	fiald	f∩r	naete
_	'	LCIS	Degiii	VVICII	questions	about	. Scoutii ig	เกเอ	IICIG	101	posis.

5.

1	2 Was the durum wheat field scouted for [column 1]	[For rows with YE Was most of the [column 1] do 1 Operator, Partner of 2 an Employee? 3 Farm supply or Che 4 Independent Crop of Commercial so	scouting for one by or Family member? emical dealer? consultant cout?				
	YES=1	CODE					
a. weeds	0325	0326					
b. insects	0327	0328					
c. diseases	0329						
[If field was SCOUTED ask; else go to item 6.]  Were written or electronic records kept for this durum wheat field to track the activity or numbers of weeds, insects or diseases?  CODE							
VES - [Enter code 1 and continue]	[Co to itom 6]		1473				

# E PEST MANAGEMENT PRACTICES--SELECTED FIELD

6.	[Enum	erator Action: Were HERBICIDES used ( <i>pesticide product</i> 4000-4999), Section D, item 1 column 2?	
	☐ YE	S - [Continue.]	
7.	Did you BEFOR	apply herbicides to the durum wheat field E weeds emerged?	CODE
	☐ YE	S - [Enter code 1 and continue.]	1478
3.	Did vou	decide to use <i>pre-</i> emergence herbicides based on	
	•	outine treatment for weed problems experienced in previous years? YES = 1	1479
	b. fiel	d mapping of previous weed problems? YES = 1	1480
	c. rec	ommendations from a chemical dealer? YES = 1	1481
	d. rec	ommendations from an independent crop consultant? YES = 1	1482
9.	Did you	apply herbicides to this field AFTER weeds emerged?	1483
	☐ YE	S - [Enter code 1 and continue.]	1403
10.	Did you	decide to use <i>post-</i> emergence herbicides based on	
	a.	a routine treatment? YES = 1	1484
	b.	type and/or density of weed(s) present? YES = 1	1485
	C.	recommendations from a chemical dealer? YES = 1	1486
	d.	recommendations from an independent crop consultant? YES = 1	1487
12.	codes codes	erator Action: Were INSECTICIDES used (pesticide product 1000-1999), Section D, item 1 column 2?	
		YES - [Continue.] NO - [Go to item 15.]	
13.	Did you	decide to apply insecticides to the durum wheat field based on	
	a.	a preventive schedule?	1489 
	C.	scouting data compared to University or Extension guidelines for infestation thresholds?	1491
			1492
	d.	standard practices or history of insect problems? YES = '	1493
	e.	local information ( <i>from other farmers, radio, TV, newsletters, etc.</i> ) that the pest was or was not present?	1
	f.	your (the operator's) own determination of the infestation level? YES = 1	1494 

E PEST MANAGEMENT PRACTICES--SELECTED FIELD

15.	Were	<u> </u>	CODE
	a.	planting or harvesting dates adjusted on this field to reduce (or control) pests?	196
	b.	pesticides alternated from year to year on this field to control pests? (Use pesticides from different families.) YES = 1	198
	h.	grazing dates adjusted on this wheat field to reduce (or help control) pests? YES = 1	510
16.	Was (w	vere)	
	•		511
	b.	beneficial insects considered in selecting and using pesticides on this field?	512
17.	Were	beneficial insects purchased and released in this durum wheat field? YES = 1	516
19.	rec	vas your primary outside source of information on pest management commendations for the 1997 durum wheat crop? se Pest Management Information Sources code List.]	
		PEST MANAGEMENT INFORMATION SOURCES CODE LIST	
		1 Extension Advisor, Publications or Demonstrations (County, Cooperative or University)	
		2 Farm Supply or Chemical Dealer	
		3 Commercial Scouting Service	Choose one and enter code.]
		4 Crop Consultant or Pest Control Advisor	519
		5 Other Growers or Producers	
		6 Producer Associations, Newsletters or Trade Magazines	
		7 Electronic Information Services (World Wide Web, DTN, etc.)	
		8 Other	
		9 None	
21.	Have you	ou (the operator) completed courses leading to certification for applying "Restricted esticides?	<b>CODE</b> 398

OFFICE USE

0399

### **NOTES and CALCULATIONS:**

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2.	Including custom operations, I need to list field work
	performed by machines on this field for the 1997
	durum wheat crop. Please

- Begin with the first field operation after harvest of the previous crop, 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?

- 2 Partiel?
  3 Unpaid Worker?
  4 Paid Part-time or Seasonal Worker?
  5 Paid Full-time Worker?
  6 Custom Applicator? --[Go to Column 11.]

	CHECK LIST  Include all field work using machines for- Land Forming Tillage Preparing for Irrigation before seeding Planting Exclude Lime & Gypsum applications Applying Fertilizers & Pesticides
	Lime & Gypsum applications
I	

2 S E Q U	3 What operation or equipment was used?	<b>4</b> [Record machine code from	5 Who was the machine operator	[If CUSTOM (column 5 = code 6) skip columns 9-10]		11 In what month was this operation done?
OE N C E		Respondent Booklet.]	[Enter code from above.]	9 How many acres were covered? 1/	10 How many acres were covered per hour?	
No.		CODE		ACRES	ACRES PER HOUR	MMYY
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
0531		0532	0533	0537	0538	0539
0541		0542	0543	0547	0548 • <u> </u>	0549
0551		0552	0553	0557	0558	0559
0561		0562	0563	0567	0568	0569

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

**OFFICE USE** 0015

F

F		F	
10. Was	s there (will there be) a yield monitor on the equipment used to harvest this durum wheat field?	ES = 1	1520
	a. [If YES, ask] Was (will there be) a yield map produced from this harvest using information from the yield monitor?	ES = 1	1521

**ACRES** 1522 How many acres in this field were irrigated for the 1997 durum wheat crop? Now, I have some questions about the irrigation of this field for the 1997 durum wheat crop. SYSTEM TYPE CODE a. What type of irrigation system was used to irrigate this field? 1523 [Ask Respondent to look at **System Type Codes** in the Respodent Booklet. Enter **System Type Code** for system covering the most field acres.] . . . . . . . . **INCHES PER ACRE** What was the total number of inches of water applied per acre 1524 to this field during the entire growing season? (Include ALL water used from both on-farm and off-farm sources.) . . . . **TOTAL HOURS** [Ask only if operator cannot provide item 2b; else go to item 2d.] What is the **total** number of **hours** that water was applied to this field during the growing season? .......... **GALLONS PER** 1526 (1) How many gallons per minute were applied? ............ **PERCENT** 1527 What percent of ALL water applied to NUMBER 1528 What was the number of times this field Was any water purchased to irrigate this field? (Include landlord's share and purchases from all sources.) CODE 1529 ☐ **YES** - [Enter code 1 and continue.] **PERCENT** 1530 CODE Were wells used to supply irrigation water for this field? 1531 ☐ **YES** - [Enter code 1 and continue.] NO - [Go to conclusion.] . . . . . . . . . **TOTAL DOLLARS** 1532 What was the total cost for fuel and power used to pump irrigation water from these wells in 1997? . . . .

### **NOTES and CALCULATIONS:**

### **CONCLUSION**

### **LOCATION OF SELECTED FIELD**

1.	I need to locate the selected field of durum wheat on this map.	OFFICE USE COUNTY FIPS CODE
	What county is the selected durum wheat field in?	0021

[ENUMERATOR ACTION: Mark the map to indicate where the selected durum wheat field is located. Be sure the "X" you mark on the map is in this county.]

[Offer survey results or other Agency publications. Thank the respondent, then review this questionnaire.]

			CODE
RESPONDENT	1 Operator/manager/partner 2 Spouse 3 Accountant/bookkeeper 4 Other		0101
Respondent's name [if code 3 or 4]			-
Phone	()		
RECORDS USE			
Did the respondent use farm/i	anch records to report <b>fertilizer</b> o	data? YES = 1	0107
Did the respondent use farm/i	anch records to report <b>pesticide</b>	data? YES = 1	0108
SUPPLEMENTS USED		FERTILIZER	NUMBER 0113
		APPLICATIONS	0444
Record the total number of ea used to complete this interviev	ch type of supplement v	PESTICIDE APPLICATIONS	0114
		FIELD OPERATIONS	0115
			MILITARY TIME
ENDING TIME [MILITARY]			0005
			MM DD YY
DATE:			
			ENUMERATOR ID 0098
ENUMERATOR			EVALUATION
			0100