



NATIONAL AGRICULTURAL RESOURCE MANAGEMENT STUDY
AGRICULTURAL STATISTICS SERVICE
SUNFLOWER PRODUCTION PRACTICES REPORT
 for 1999

Form Approved
 O.M.B. Number 0535-0218
 Approval Expires 10/31/00
 Project Code 906
 Phase II

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

VERSION 11	POID _____	TRACT 00	SUBTRACT _____	T-TYPE 0	TABLE 000	LINE 00
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CONTACT RECORD		
DATE	TIME	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 sunflowers and need your help to make the information as accurate as possible. Authority for collection of information on the Sunflower 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.

1535

H H M M

BEGINNING TIME [MILITARY]

SCREENING BOX

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

OFFICE USE

Completion Code
 3 = ZERO TARGET

[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>

A A SUNFLOWER FIELD SELECTION

1. How many acres of sunflowers did this operation plant for the 1999 crop year?

[> If no acres planted, review Phase I Information Form. Make notes, then go to item 3 on back page.]

TOTAL PLANTED ACRES
0019

2. What is the TOTAL number of sunflower fields that were planted on this operation?

TOTAL NUMBER OF FIELDS PLANTED
0020

[If only 1 field, go to item 4.]

3. I will follow a simple procedure to make a random selection from the (item 2) sunflower fields planted for the 1999 crop.

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.]

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

4. [ENUMERATOR ACTION:

Circle the pair of numbers on the above label associated with the last numbered field in item 3. 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

5. The field selected is (field name/number/description). During this interview, the sunflower questions will be about this selected sunflower field.

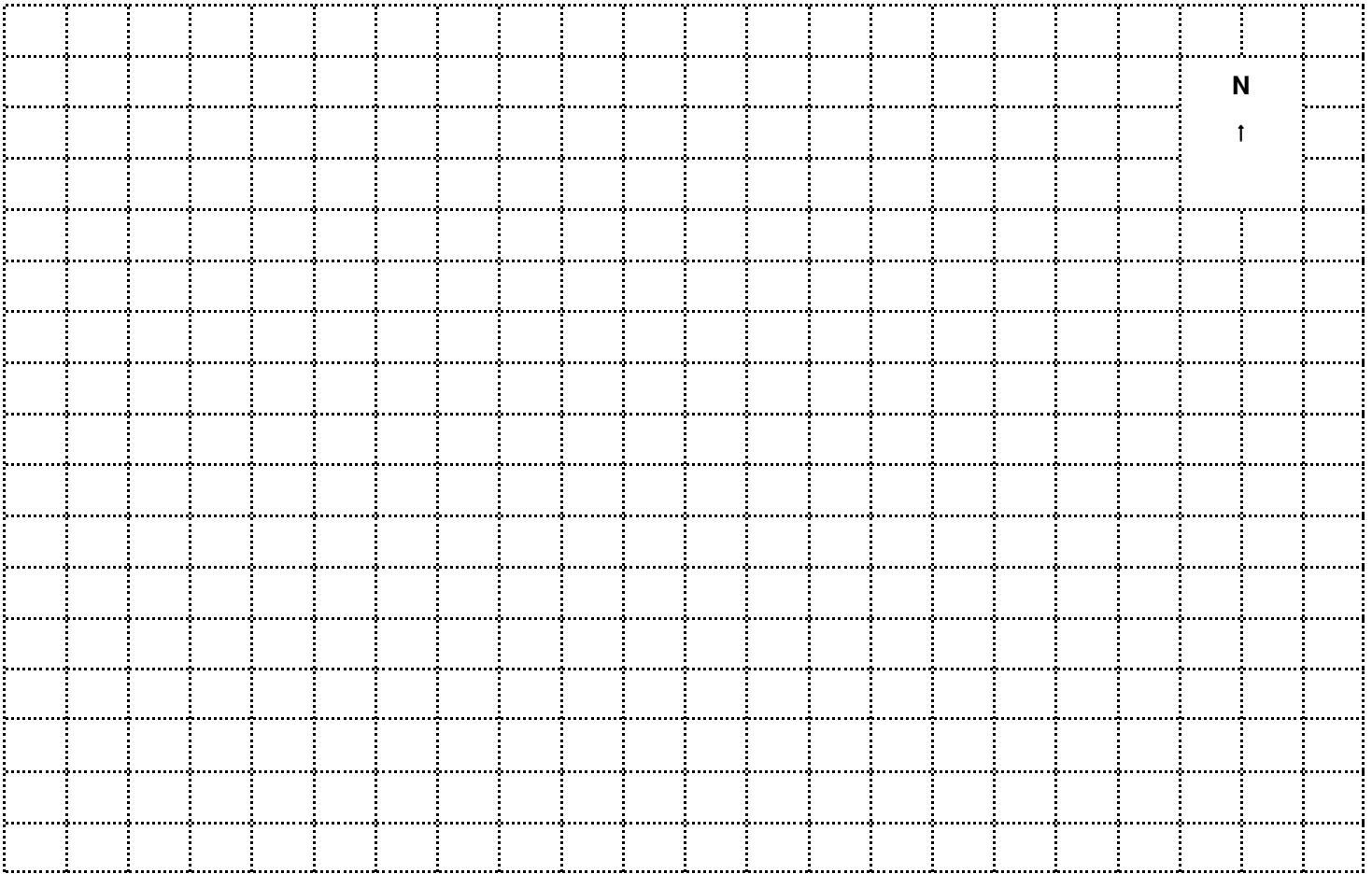
[Be sure the operator can identify the selected field.]

OFFICE USE
OY Field Substituted

0022

A **SUNFLOWER FIELD SELECTION**

Field Selection Grid



B FIELD CHARACTERISTICS---SELECTED FIELD B

1. How many acres of sunflowers did this operation plant in this field for the 1999 crop? **ACRES**

1535	_____
------	-------

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

1536	_____
1537	_____
1538	_____
1539	_____

a. owned by this operation?
b. rented for CASH?
c. SHARE rented?
d. used RENT-FREE?

3. What year did you start operating this field? **YEAR**

1540	_____
------	-------

a. Do you EXPECT to be operating this field for the next 5 years (through the 2004 crop year)? **YES = 1** **CODE**

1541	_____
------	-------

4. On what date was this field planted? **MM DD YY**

1542	_____
------	-------

5. What type of sunflowers were planted on this field? ... **CODES for type of Sunflowers planted**

1= OIL VARIETY
2= NON-OIL VARIETY

1543	_____
------	-------

6. What was the seeding rate per acre the first time this field was seeded? **UNIT CODES for Seeding Rate**
1=POUNDS
2=CWT.
4=BUSHEL
25=KERNELS/SEEDS

1544	_____	1545	_____
------	-------	------	-------

a. Was the seed-- **CODES for type of Sunflowers planted**

1 Drilled?
2 Planted in conventional rows?
3 Broadcast on this field?

1546	_____
------	-------

b. [If DRILLED or PLANTED, ask--]
What was the row width in inches? **INCHES**

1547	_____
------	-------

7. Was the source of the sunflower seed-- **CODES for type of Sunflowers planted**

1 Purchased?
2 Homegrown or traded?
3 Both?

1548	_____
------	-------

B FIELD CHARACTERISTICS---SELECTED FIELD

B

CODE

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

1552

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

1 How many acres in the sunflower field were (will be)--	2 What yield per acre did you get (do you expect to get) for--		3 UNIT CODES
	ACRES	UNITS PER ACRE	1=POUNDS 2=CWT 3=TONS 4=BUSHEL
a. harvested for sunflower seed?	1553 . ____	1554 . ____	1555
d. abandoned?	1561 . ____		
e. used for some other purpose?	1562 . ____		

CROP CODE LIST for item 12 PREVIOUSLY PLANTED CROP was--			
1 Alfalfa hay	281 Cotton, Upland	16 Peanuts	26 Soybeans
190 Barley	282 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 <i>No crop planted during this period</i>

12. 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
a. FALL of 1998?	1564 1565
b. SPRING/SUMMER of 1998?	1566 1567
c. FALL of 1997?	1568 1569
d. SPRING/SUMMER of 1997?	1570 1571
e. FALL of 1996?	1572 1573
f. SPRING/SUMMER of 1996?	1574 1575

CODE

13. Was crop residue (from the previous crop planted) removed from this field by baling or removing straw or stalks, burning, etc.? YES = 1

1576

B FIELD CHARACTERISTICS---SELECTED FIELD B

1	2	3
14. Did your land-use practices for this field include--	In what year were the (column 1) established in this field?	[If (column 1) were established before operator began operating this field, enter code 1 and skip column 3.] Excluding government cost sharing payments, how much of the cost of building the (column 1) was paid directly by you?
CODE	YEAR	PERCENT
a. terraces? YES = 1	1577	1578
b. temporary or permanent levees? YES = 1	1581	1582
c. grassed waterways? YES = 1	1585	1586
d. filter strips or riparian buffers on or adjoining the field? YES = 1	1589	1590
e. contour farming? YES = 1	1593	1591
f. strip cropping? YES = 1	1594	
g. underground outlets such as tile drainage? YES = 1	1595	
h. other drainage channels or diversions? YES = 1	1596	

- CODE**
15. Has the Natural Resource Conservation Service or NRCS classified any part of this field as "Highly Erodible"? YES = 1
16. Have you been notified by NRCS that this field contains a wetland? YES = 1
17. Have you received assistance from NRCS in 1999 for planning or installation of conservation practices or systems? YES = 1
18. Have you received financial cost-sharing assistance from the Farm Service Agency (formerly ASCS) in 1999 for installation of conservation practices or systems? YES = 1

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

1. Were commercial FERTILIZERS applied to this field for the 1999 sunflower crop? YES=1

CODE	EDIT TABLE
1601	0201

2. [If COMMERCIAL fertilizer applied, continue, else go to item 5.]

3. How many trips were made across this field to apply commercial fertilizer for the 1999 crop (include applications made by airplanes and commercial applicators)? ...

NUMBER
1602

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

CHECK LIST	
INCLUDE	EXCLUDE
<input type="checkbox"/> Custom applied fertilizers	<input type="checkbox"/> Micronutrients
<input type="checkbox"/> Fertilizer applied in the fall of 1998 and those applied earlier if this field was fallow in 1998	<input type="checkbox"/> Unprocessed manure
<input type="checkbox"/> Commercially prepared manure	<input type="checkbox"/> Fertilizer applied to previous crops in this field

T-TYPE	TABLE
2	001
LINE 99	OFFICE USE LINES IN TABLE 0213

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.]	5 When was this applied?	6 How was this applied?	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
-------------	--------------	------------

CODE

5. Was a nitrogen soil test performed on this field? YES = 1
 a. [If nitrogen test done, ask--]

1603

POUNDS PER ACRE

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

1604

6. [Enumerator Action: Refer to the Fertilizer Table, column 2.
 If nitrogen (N) was applied, complete items 7 and 8.
 If NO nitrogen applied, skip to item 9.]

7. 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

1605

1606

1607

1608

1609

1610

8. 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

1611

9. Was a soil test performed on this field in 1998 or 1999
 for the 1999 sunflower crop? YES = 1

1612

10. Was a plant tissue test performed on this field in 1998 or 1999
 for the 1999 sunflower crop? YES = 1

1613

11. Is lime ever applied to this field? YES = 1

1614

a. [If lime applied, ask--]

YEARS

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

1615

b. [If lime applied, ask--]

TONS PER ACRE

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

1616	. __ _
------	--------

CODE

12. Was sulfur applied to this field for the 1999 crop? YES = 1

1617

a. [If sulfur applied, ask--]

POUNDS PER ACRE

How many pounds of sulfur were applied per acre?

1618	. __ _
------	--------

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

13. Was gypsum applied to this field for the 1999 crop?	YES = 1	CODE 1619
14. Were micronutrients applied to this field for the 1999 crop?	YES = 1	1620
a. [If micronutrients applied, ask--]		
Did the micronutrients include zinc ?	YES = 1	1621

15. Was manure applied to this field for the 1999 sunflower crop?
(Exclude commercially prepared manure.)

<input type="checkbox"/> YES - [Enter code 1 and continue.]	CODE 1622
<input type="checkbox"/> NO - [Go to Section D.]	

a. How many acres was manure applied to?

	ACRES 1623
--	---------------

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

	TOTAL TONS 1624	OR	TOTAL GALLONS 1625
--	--------------------	----	-----------------------

c. Was the manure--

1 Dry Broadcast <i>without</i> incorporation? 2 Dry Broadcast <i>with</i> incorporation? 3 Liquid Broadcast <i>without</i> incorporation? 4 Liquid Broadcast <i>with</i> incorporation? 5 Injected/knifed in?	CODE 1626
---	--------------

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

1 Beef cattle? 2 Dairy cattle? 3 Hogs? 4 Sheep? 5 Poultry? 6 Equine? 7 Biosolids (<i>municipal sludge, food waste, etc.</i>)? 8 Other (<i>Specify _____</i>)?	CODE 1627
--	--------------

e. Was the manure--

1 Produced on this operation? 2 Purchased? 3 Obtained at no cost off this operation?	CODE 1628
--	--------------

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 1999 sunflower crop.

Were any herbicides, insecticides, fungicides or other chemicals used on the sunflower field for the 1999 crop? YES = 1

CODE	EDIT TABLE
1630	0301

[Probe for applications made in the fall of 1998 (and those made earlier if this field was fallow).]
[If none, go to Section E.]

CHECK LIST		
INCLUDE		EXCLUDE
<input type="checkbox"/> Defoliant	<input type="checkbox"/> Insecticides	<input type="checkbox"/> Fertilizers reported earlier
<input type="checkbox"/> Fungicides	<input type="checkbox"/> All other pesticides	<input type="checkbox"/> Seed treatments
<input type="checkbox"/> Herbicides		

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

NOTES	LINE	2 What products were applied to this field? <small>[Show product codes from Respondent Booklet.]</small>	3 Was this product bought in liquid or dry form? <small>[Enter L or D.]</small>	4 Was this part of a tank mix? <small>[If tank mix, enter line number of first product in mix.]</small>	5 When was this applied? <small>1 BEFORE planting 3 AT planting 4 AFTER planting 5 Defoliation prior to harvest</small>	6 How much was applied per acre per application?	OR 7 What was the total amount applied per application in this field?	8 <small>[Enter unit code.]</small> 1 Pounds 12 Gallons 13 Quarts 14 Pints 15 Ounces 30 Grams
			01	0305		0306	0307	0308 • _____
	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 <small>(Herbicide, Insecticide Fungicide, etc.)</small>	EPA No. or Tradename and Formulation	Form Purchased <small>(Liquid or Dry)</small>	Where Purchased <small>[Ask only if EPA No. cannot be reported.]</small>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

D PESTICIDE APPLICATIONS---SELECTED FIELD

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>	This year, was the problem of this pest-- 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

- Now I have some questions about your pest management decisions and practices used on this field for the 1999 sunflower crop. By pests, we mean WEEDS, INSECTS and DISEASES.
- Let's begin with questions about scouting this field for pests.

<p>1</p> <p>Was this sunflower field scouted for--</p>	<p>②</p> <p><i>[If YES, ask--]</i></p> <p>Who did the majority of the scouting for</p> <p><i>[column 1]--</i></p> <p>1 Operator, Partner or Family member? 2 an Employee? 3 Farm supply or Chemical dealer? 4 Independent Crop consultant or Commercial scout?</p> <p>CODE</p>
YES=1	
a. weeds?	1631 1632
b. insects?	1633 1634
c. diseases?	1635 1636

- [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

<p>CODE</p> <p>1637</p>

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

4. [Enumerator Action: *Were HERBICIDES used (pesticide product codes 4000-4999), Section D, item 1 column 2?*]
 YES - [Continue.] NO - [Go to item 9.]

5. Did you apply herbicides to this sunflower field BEFORE weeds emerged? YES = 1 CODE
1638
 a. [Enumerator Action: *Were PRE-EMERGENT HERBICIDES used?*]
 YES - [Continue.] NO - [Go to item 7.]

6. Did you decide to apply herbicides BEFORE weeds emerged on this sunflower field based on--
 a. a routine treatment for weed problems experienced in previous years? YES = 1 1639
 b. field mapping of previous weed problems? YES = 1 1640
 c. recommendations from a *chemical dealer*? YES = 1 1641
 d. recommendations from an *independent crop consultant*? YES = 1 1642

7. Did you apply herbicides to this sunflower field AFTER weeds emerged? YES = 1 1643
 a. [Enumerator Action: *Were POST-EMERGENT HERBICIDES used?*]
 YES - [Continue.] NO - [Go to item 9.]

8. Did you decide to apply herbicides AFTER weeds emerged on the sunflower field based on--
 a. a routine treatment? YES = 1 1644
 b. type and/or density of weed(s) present? YES = 1 1645
 c. recommendations from a *chemical dealer*? YES = 1 1646
 d. recommendations from an *independent crop consultant*? YES = 1 1647

9. [Enumerator Action: *Were INSECTICIDES used (pesticide product codes 1000-1999), in Section D, item 1 column 2?*]
 YES - [Continue.] NO - [Go to item 11.]

10. Did you decide to apply insecticides to this sunflower field based on--
 a. a preventative schedule? YES = 1 1648
 b. scouting data compared to University or Extension guidelines for infestation thresholds? YES = 1 1649
 c. standard practices or history of insect problems? YES = 1 1650
 d. local information (*from other farmers, radio, TV, newsletters, etc.*) that the pest was or was not present? YES = 1 1651
 e. your (the operator's) own determination of the infestation level? YES = 1 1652

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

OTHER PEST MANAGEMENT PRACTICES

		CODE
11.	Was protection of beneficial organisms a factor in your pest control decisions for this field? YES = 1	1653
12.	Did you use any beneficial organisms to control pests in this field? YES = 1	1654
13.	Did you use water management practices, such as controlled drainage or irrigation scheduling to control pests in this field? [Exclude chemigation.] YES = 1	1655
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	1656
15.	Did you clean equipment and implements after completing field work to reduce the spread of pests from this field? YES = 1	1657
16.	Did you cultivate this field for weed control during the growing season? YES = 1	1658
17.	Did you consider pest resistance when selecting which variety to plant in this field? YES = 1	1659
18.	Did you treat the seed used in this field for disease control? YES = 1	1660
19.	Did you adjust planting or harvesting dates to control pests? YES = 1	1661
20.	Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field? YES = 1	1662
21.	Did you alternate pesticides (use pesticides with different mechanisms of action) to keep pests from becoming resistant to pesticides in this field? YES = 1	1663
22.	Did you adjust row spacing or plant density to control pests in this field? YES = 1	1664
23.	Did you rotate crops on this field during the past 3 years to control pests? YES = 1	1665
26.	Did you do any other type(s) of pest management to control pests in this field? YES = 1	1669
a. [If YES, ask--]		
What did you do? [List other activities.]		
_____		1670
_____		1671
_____		1672

E PEST MANAGEMENT PRACTICES--SELECTED FIELD E

PEST MANAGEMENT INFORMATION

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

What was your primary outside source of information on pest management recommendations for the 1999 sunflower 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 - (Specify _____)
- 9 None - Operator used no **outside** information source.

[Choose one source
and enter code.]

1673

PEST MANAGEMENT TRAINING

28. **Have you (the operator) attended any training session on pest identification and management since October 1, 1998?** YES = 1

CODE

0028

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

CODE

0029

OFFICE USE

0030

F FIELD OPERATIONS --- SELECTED FIELD F

1. Including custom operations, I need to list field work performed by machines on this field for the 1999 sunflower crop. Please...
- ▶ Begin with the first field operation after harvest of previous crop. (If fallow during 1998, list operations starting with fall 1997.)
 - ▶ 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 6 & 7.]		8 In what month was this operation done? MM YY
				6 How many acres were covered? 1/ ACRES	7 How many acres were covered per hour? ACRES PER HOUR	
0321		0322	0323	0324	0325	0326
0328		0329	0330	0331	0332	0333
0335		0336	0337	0338	0339	0340
0342		0343	0344	0345	0346	0347
0349		0350	0351	0352	0353	0354
0356		0357	0358	0359	0360	0361
0363		0364	0365	0366	0367	0368
0370		0371	0372	0373	0374	0375
0377		0378	0379	0380	0381	0382
0384		0385	0386	0387	0388	0389
0391		0392	0393	0394	0395	0396
0398		0399	0400	0401	0402	0403
0405		0406	0407	0408	0409	0410
0412		0413	0414	0415	0416	0417
0419		0420	0421	0422	0423	0424

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 7 blank.

OFFICE USE

0032

		CODE
4.	Was there (will there be) a yield monitor on the equipment used to harvest this sunflower field? YES = 1	1677
	a. [If YES, ask--]	
	Was (will there be) a yield map produced from this harvest using information from the yield monitor? YES = 1	1678
5.	Regardless of when done, has this field been soil grid-sampled and grid-mapped? YES = 1	1679
6.	Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 1999 growing season? YES = 1	1680
7.	Was variable rate technology (VRT) used for--	
	a. fertilization or liming? YES = 1	1681
	b. seeding? YES = 1	1682
	c. pesticide applications? YES = 1	1683

1. How many acres in this field were irrigated for the 1999 sunflower crop? ACRES
1684

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

2. Now, I have some questions about the irrigation of this field for the 1999 sunflower 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.] 1685

b. What was the total number of inches of water per acre applied to this field during the entire growing season? INCHES PER ACRE
(Include ALL water used from both on-farm and off-farm sources.) 1686

[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 1687
(2) How many gallons per minute were applied?	GALLONS PER MINUTE 1688

c. What percent of ALL water used to irrigate this field came from surface water sources? PERCENT
1689

d. What was the number of times this field was irrigated during the growing season? NUMBER
1690

3. Was any water purchased to irrigate this field? CODE
(Include landlord's share and purchases from all sources.) YES = 1 1691

a. [If water purchased, ask--]
 What percent of the water used on this field was purchased? PERCENT
1692

4. Were wells used to supply irrigation water for this field? CODE
 YES = 1 1693

5. Is the runoff from this field primarily-- CODE
1694

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

H OPERATOR and OPERATION CHARACTERISTICS H

1. In 1999, was this operation's LEGAL STATUS--

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

ENTER CODE

0035

2. In 1999, 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. 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 1999;

What code represents the total gross value of sales for this operation in 1999?

- | | | | | |
|--------------------------|----|---------------------|------------|--|
| <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 and over | | |

CODE

0038

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

FARM TYPE CODE

0039

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 |

OFFICE USE

0040

LOCATION OF SELECTED FIELD

20
CONCLUSION

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

What county is the selected sunflower field in?

COUNTY NAME

OFFICE USE--
COUNTY FIPS CODE

2. [ENUMERATOR ACTION:

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

3. 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

RECORDS USE

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

a. [fertilizer data?] YES = 1

b. [pesticide data?] YES = 1

SUPPLEMENTS USED

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

FERTILIZER
APPLICATIONS

PESTICIDE
APPLICATIONS

FIELD
OPERATIONS

NUMBER

RESPONDENT

Respondent's name
[if code 3 or 4]

Phone

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

CODE

ENDING TIME [MILITARY]

DATE:

ENUMERATOR NAME

MILITARY TIME
H H M M

MM DD YY

ENUMERATOR ID

EVALUATION