



**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
UPLAND COTTON PRODUCTION
PRACTICES REPORT
for 1999**

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

VERSION 08	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 upland cotton and need your help to make the information as accurate as possible. Authority for collection of information on the Upland Cotton 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.

H H M M

BEGINNING TIME 0004
[MILITARY] _____

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>

UPLAND COTTON FIELD SELECTION

1. How many acres of upland cotton 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 upland cotton 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) upland cotton 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 upland cotton questions will be about this selected upland cotton field.**

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

**OFFICE USE
OY Field Substituted**

0022

B

FIELD CHARACTERISTICS---SELECTED FIELD

B

1. How many acres of upland cotton did this operation plant in this field for the 1999 crop? ACRES
1335

2. How many acres in this field were--

	ACRES
a. owned by this operation?	1336 .__
b. rented for CASH?	1337 .__
c. SHARE rented?	1338 .__
d. used RENT-FREE?	1339 .__

3. What year did you start operating this field? YEAR
1340

a. Do you EXPECT to be operating this field for the next 5 years (through the 2004 crop year)? YES = 1 CODE
1341

4. On what date was this field planted? MM DD YY
1342

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
UNITS PER ACRE
1344 .__ 1345

a. Was the seed-- CODE
1346

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

b. [If DRILLED or PLANTED, ask--]
What was the row width in inches? INCHES
1347 .__

7. Was the source of the upland cotton seed-- CODE
1348

1	Purchased? - [Enter code 1; continue.]
2	Homegrown or traded? - [Enter code 2; go to item 10.]
3	Both? - [Enter code 3; continue.]

[If any seed purchased (codes 1 or 3), continue with item 8. If all seed homegrown or traded (code 2), go to item 10.]

8. Which type of upland cotton seed variety was used--
 [Show Seed Type Code List. Choose one code.]

CODE

1349

a. in this field in 1999?

1350

b. in this field in 1998?
 [Leave blank if different commodity planted in 1998.]

SEED TYPE - UPLAND COTTON	
1	Genetically-modified herbicide resistant seed variety
3	Bt variety for insect resistance
4	Variety with both insect and herbicide resistance
6	Variety planted not listed above

9. [If used RESISTANT seed, ask--]

Seed varieties may offer several benefits.

Did you choose the resistant seed variety used on this field primarily to--

- 1 Increase yields through improved pest (*weed, insect or disease*) control?
- 2 Decrease pesticide input costs?
- 3 Increase planting flexibility, (*for example, easier to rotate crops, reduce carryover, use reduced tillage or no-till systems, etc.*)?
- 4 Adopt more environmentally-friendly practices?
- 5 For some other reason(s)? [*Specify _____*]

CODE

1351

.....

CODE

1352

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

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

1		2	
How many acres in the upland cotton field were (will be)--		What yield per acre did you get (do you expect to get) for lint?	
	ACRES	POUNDS PER ACRE	
a. harvested for lint?	1353 • ____	1354	• ____
d. abandoned?	1361 • ____		
e. used for some other purpose?	1362 • ____		

FIELD CHARACTERISTICS---SELECTED FIELD

CROP CODE LIST for item 12 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

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

1			2
What crop was PLANTED on this field in--			Was this crop irrigated?
	CROP NAME	CROP CODE	YES = 1
a. FALL of 1998?		1364	1365
b. SPRING/SUMMER of 1998?		1366	1367
c. FALL of 1997?		1368	1369
d. SPRING/SUMMER of 1997?		1370	1371
e. FALL of 1996?		1372	1373
f. SPRING/SUMMER of 1996?		1374	1375

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

CODE

1376

1 14. 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 and skip column 3.]	3 Excluding government cost sharing payments, how much of the cost of building the (column 1) was paid directly by you? PERCENT
a. terraces? YES = 1	1377	1378	1379	1380
b. temporary or permanent levees? YES = 1	1381	1382	1383	1384
c. grassed waterways? YES = 1	1385	1386	1387	1388
d. filter strips or riparian buffers on or adjoining the field? YES = 1	1389	1390	1391	1392
e. contour farming? YES = 1	1393			
f. strip cropping? YES = 1	1394			
g. underground outlets such as tile drainage? YES = 1	1395			
h. other drainage channels or diversions? YES = 1	1396			

	CODE
15. Has the Natural Resource Conservation Service or NRCS classified any part of this field as "Highly Erodible"? YES = 1	1397
16. Have you been notified by NRCS that this field contains a wetland? YES = 1	1398
17. Have you received assistance from NRCS in 1999 for planning or installation of conservation practices or systems? YES = 1	1399
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	1400

7
C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD C

	CODE	EDIT TABLE
1. Were commercial FERTILIZERS applied to this field for the 1999 upland cotton crop? YES=1	1401	0201

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

	NUMBER
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)?	1402

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

CHECK LIST			T-TYPE	TABLE
<p align="center">INCLUDE</p> <input type="checkbox"/> Custom applied fertilizers <input type="checkbox"/> Fertilizer applied in the fall of 1998 and those applied earlier if this field was fallow in 1998 <input type="checkbox"/> Commercially prepared manure	<p align="center">EXCLUDE</p> <input type="checkbox"/> Micronutrients <input type="checkbox"/> Unprocessed manure <input type="checkbox"/> Fertilizer applied to previous crops in this field		2	001
			LINE 99	OFFICE USE LINES IN TABLE
				0213

LINE	2 → → → MATERIALS USED <small>[Enter percentage analysis or actual pounds of plant nutrients applied per acre.] [Show Common Fertilizers in Respondent Booklet.]</small>			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 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? 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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T-TYPE 0	TABLE 000	LINE 00
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5. **Was a nitrogen soil test performed on this field?** YES = 1

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

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

CODE
1403
POUNDS PER ACRE
1404

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--**

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

CODE
1405
1406
1407
1408
1409
1410

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

CODE
1411

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

CODE
1412

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

CODE
1413

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

CODE
1414

a. [If lime applied, ask--]
 On average, how many years are there between applications of **lime** to this field?

YEARS
1415

b. [If lime applied, ask--]
 How many tons of **lime** were applied per acre the last time it was applied to this field?

TONS PER ACRE
1416

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

CODE
1417

a. [If sulfur applied, ask--]
 How many pounds of sulfur were applied per acre?

POUNDS PER ACRE
1418

13. **Was gypsum applied to this field for the 1999 crop?** YES = 1

CODE
1419

C FERTILIZER and NUTRIENT APPLICATIONS---SELECTED FIELD

14. Were micronutrients applied to this field for the 1999 crop? YES = 1

1420

a. [If micronutrients applied, ask--]

Did the micronutrients include zinc? YES = 1

1421

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

YES - [Enter code 1 and continue.]

CODE
1422

NO - [Go to Section D.]

a. How many acres was manure applied to?

ACRES
1423

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

TOTAL TONS
1424

OR TOTAL GALLONS
1425

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
1426

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 (*municipal sludge, food waste, etc.*)?
- 8 Other (*Specify _____*)?

CODE
1427

e. Was the manure--

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

CODE
1428

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 1999 upland cotton crop.

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

CODE	EDIT TABLE
1430	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"/> Defoliants	<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		

	T-TYPE	TABLE
	3	001
LINE 99	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 5 Defoliation prior to harvest	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 (Aerial application)	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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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 upland cotton 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 upland cotton field scouted for--</p>	<p>YES=1</p>	<p>2</p> <p>[If YES, ask--] Who did the majority of the scouting for [column 1]--</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>
a. weeds?	1431	1432
b. insects?	1433	1434
c. diseases?	1435	1436

- [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>1437</p>

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 upland cotton field BEFORE weeds emerged? YES = 1

CODE
1438

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 upland cotton field based on--

1439
1440
1441
1442

a. a routine treatment for weed problems experienced in previous years? YES = 1
 b. field mapping of previous weed problems? YES = 1
 c. recommendations from a *chemical dealer*? YES = 1
 d. recommendations from an *independent crop consultant*? YES = 1

7. Did you apply herbicides to this upland cotton field AFTER weeds emerged? YES = 1

1443

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 upland cotton field based on--

1444
1445
1446
1447

a. a routine treatment? YES = 1
 b. type and/or density of weed(s) present? YES = 1
 c. recommendations from a *chemical dealer*? YES = 1
 d. recommendations from an *independent crop consultant*? YES = 1

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 upland cotton field based on--

1448
1449
1450
1451
1452

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

OTHER PEST MANAGEMENT PRACTICES

CODE

11. Was protection of beneficial organisms a factor in your pest control decisions for this field?	YES = 1	1453
12. Did you use any beneficial organisms to control pests in this field?	YES = 1	1454
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	1455
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	1456
15. Did you clean equipment and implements after completing field work to reduce the spread of pests from this field?	YES = 1	1457
16. Did you cultivate this field for weed control during the growing season?	YES = 1	1458
17. Did you consider pest resistance when selecting which variety to plant in this field?	YES = 1	1459
18. Did you treat the seed used in this field for disease control?	YES = 1	1460
19. Did you adjust planting or harvesting dates to control pests?	YES = 1	1461
20. Did you use soil analysis to detect the presence of soilborne pests or pathogens in this field?	YES = 1	1462
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	1463
22. Did you adjust row spacing or plant density to control pests in this field?	YES = 1	1464
23. Did you rotate crops on this field during the past 3 years to control pests?	YES = 1	1465
24. Did you use pheromones on the Upland Cotton field to--		
a. monitor pests by trapping?	YES = 1	1466
b. control pests by disrupting mating?	YES = 1	1467
26. Did you do any other type(s) of pest management to control pests in this field?	YES = 1	1469
a. <i>[If YES, ask--]</i>		
What did you do? <i>[List other activities.]</i>		
_____		1470
_____		1471
_____		1472

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 upland cotton 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.]

1473

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

2.	Was a moldboard plow used to prepare this field for this cotton crop?	YES = 1	CODE 1474
a.	[If YES, ask-] What month was the moldboard plow used for this cotton field?		MM YY 1475 _ _ _ _
3.	Was a stale-seedbed system used to prepare and plant this cotton field?	YES = 1	CODE 1476
4.	Was there (will there be) a yield monitor on the equipment used to harvest this upland cotton field?	YES = 1	CODE 1477
a.	[If YES, ask-] Was (will there be) a yield map produced from this harvest using information from the yield monitor?	YES = 1	1478
5.	Regardless of when done, has this field been soil grid-sampled and grid-mapped?	YES = 1	1479
6.	Was this field remotely sensed (by airplane or satellite) and an image produced either before or during the 1999 growing season?	YES = 1	1480
7.	Was variable rate technology (VRT) used for--		
a.	fertilization or liming?	YES = 1	1481
b.	seeding?	YES = 1	1482
c.	pesticide applications?	YES = 1	1483

1. How many acres in this field were irrigated for the 1999 upland cotton crop? 1484 ACRES

[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 upland cotton 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.] 1485

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.) 1486

[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 1487
(2) How many gallons per minute were applied? GALLONS PER MINUTE 1488

c. What percent of ALL water used to irrigate this field came from surface water sources? PERCENT 1489

d. What was the number of times this field was irrigated during the growing season? NUMBER 1490

3. Was any water purchased to irrigate this field? CODE 1491
(include landlord's share and purchases from all sources.) YES = 1

a. [If water purchased, ask--] PERCENT 1492
What percent of the water used on this field was purchased?

4. Were wells used to supply irrigation water for this field? CODE 1493
..... YES = 1

5. Is the runoff from this field primarily-- CODE 1494
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 (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 _____)

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?

- 1 Less than \$1,000
- 2 \$ 1,000 -- \$ 2,499
- 3 \$ 2,500 -- \$ 4,999
- 4 \$ 5,000 -- \$ 9,999
- 5 \$ 10,000 -- \$ 19,999
- 6 \$ 20,000 -- \$ 24,999
- 7 \$ 25,000 -- \$ 39,999
- 8 \$ 40,000 -- \$ 49,999
- 9 \$ 50,000 -- \$ 99,999
- 10 \$ 100,000 -- \$ 249,999
- 11 \$ 250,000 -- \$ 499,999
- 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

NOTES and CALCULATIONS:

20
CONCLUSION

LOCATION OF SELECTED FIELD

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

COUNTY NAME

OFFICE USE--
COUNTY FIPS CODE

What county is the selected upland cotton field in?

0010

2. [ENUMERATOR ACTION:

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

CODE

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

0099

RECORDS USE

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

a. [fertilizer data?] YES = 1

0011

b. [pesticide data?] YES = 1

0012

SUPPLEMENTS USED

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

FERTILIZER APPLICATIONS
PESTICIDE APPLICATIONS

NUMBER

0041
0042

RESPONDENT

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

CODE

0101

Respondent's name [if code 3 or 4]

Phone (_____) _____

MILITARY TIME
H H M M

ENDING TIME [MILITARY]

0005

DATE:

MM DD YY

0007	99
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ENUMERATOR NAME

ENUMERATOR ID

0098

EVALUATION

0100
