INTRODUCTION:
[Introduced yourself, and ask for the operator. Rephrase in your own words.]

The information you provide will be used for statistical purposes only. Your responses will be kept confidential and any person who willfully discloses any identifiable information about you or your operation is subject to a jail term, a fine, or both. This survey is conducted in accordance with the Confidential Information Protection provisions of Title V, Subtitle A, Public Law 107-347 and other applicable Federal laws. For more information on how we protect your information please visit: https://www.nass.usda.gov/confidentiality. Response is voluntary.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a valid OMB control number. The valid OMB control number is 0535-0218. The time required to complete this information collection is estimated to average 85 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

We encourage you to refer to your farm records during the interview.

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

<table>
<thead>
<tr>
<th>POID</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARTNER NAME</td>
<td>PARTNER NAME</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDRESS</td>
<td>ADDRESS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CITY</td>
<td>STATE</td>
<td>ZIP</td>
<td>PHONE NUMBER</td>
<td>CITY</td>
<td>STATE</td>
<td>ZIP</td>
<td>PHONE NUMBER</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POID</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
<th>今日</th>
<th>当日</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARTNER NAME</td>
<td>PARTNER NAME</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ADDRESS</td>
<td>ADDRESS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CITY</td>
<td>STATE</td>
<td>ZIP</td>
<td>PHONE NUMBER</td>
<td>CITY</td>
<td>STATE</td>
<td>ZIP</td>
<td>PHONE NUMBER</td>
</tr>
</tbody>
</table>
1. How many acres of cotton did this operation plant for the 2019 crop year? ............................................... 0050 ___

[If no acres planted, review Screening Survey Information Form, make notes, then go to Conclusion on back page.]

[If skip row cotton was planted, exclude the acreage in the skips.]

I will follow a simple procedure to make a random selection from the cotton fields planted for the 2019 crop.

2. What is the total number of cotton fields that were planted on this operation? ........................................... 0020

[If only one field enter "1" and go to item 4.]

3. Please list these field(s) 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 Supplement.]
[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 one field, enter "1".]

4. The field selected is _______________ (field name/number/description).
   During this interview, the cotton questions will be about this selected cotton field.
   [Be sure the operator can identify the selected field.]

5. For the randomly selected field above, please provide the Farm Service Agency (FSA):
   [If the physical field in this survey spans multiple FSA administrative fields, please include the farm, tract, and field number for the largest administrative field. These numbers are field identifiers that USDA uses to administer farm programs like crop insurance, commodity programs, and conservation programs. Having this information helps USDA make better use of other data you have provided to USDA and will improve the types of statistical analysis that can be done with the responses from this survey.]
   
a. Farm Number (up to 8 digits) ............................................................
   
b. Tract Number (up to 7 digits) ............................................................
   
c. Field Number (up to 4 digits, exclude subfield letters)........................................

   OFFICE USE
   OY Field Substituted
   0022
1. How many acres of cotton did this operation plant in the selected field for the 2019 crop?.................

[If skip row cotton was planted, exclude acreage in the skips.]

a. Are the acres in the selected field Certified Organic?.................................................................

[If item 1a = 1, go to item 2.]

b. Was the selected field transitioning into organic cotton production in 2019?..............................

2. Were the acres in the selected field--.................................................................

1 owned by this operation?
2 rented for cash with the payment being a fixed cash amount?
3 rented for cash with the payment being a flexible cash amount?
4 rented or a share of the crop?
5 rented for some combination of cash and share of the crop?
6 used rent free?

[If field is cash rented (item 2 = 2, 3, or 5), ask item 3, otherwise go to item 4.]

3. What was the cash rent paid per acre for the selected 2019 cotton field?........................................

[If field is share rented (item 2 = 4 or 5), ask--]

4. What was the landlord's share of the crop from the selected field?...................................................

[If field is rented (item 2 = 2, 3, 4, 5, or 6) ask--]

5. What was the total cost for all inputs provided by any landlord for the 2019 crop on the selected field? INCLUDE the costs for all inputs, such as seed, fertilizer, chemicals, technical services, custom operations, drying, and irrigation. EXCLUDE real estate tax expenses and lime costs paid by the landowner.................................................................

6. In what year did you (the operator listed on the label) start operating the selected field?.................

7. On what date was the selected field planted?..............................................................................

a. Excluding pounds of seed cotton, what was your yield goal for cotton lint at planting for the selected field?.................................................................

8. What type of cotton was planted on the selected field?..............................................................

1 Upland
2 Pima - extra long stable or ELS
9. What was the source and cost of--

a. Genetically modified organism/genetically engineered (GMO/GE) purchased seed?

b. Non genetically modified organism/genetically engineered (Non-GMO/GE) purchased seed?

c. Homegrown seed?

[If homegrown, ask--]

i. What was the cost for cleaning and treating this seed?

10. What was the seeding rate per acre the first time the selected field was planted?

a. What method of seeding did you use on the selected field?

[If 10a = 2, ask--]

b. What was the average cotton row width?

11. Did the selected field have skip-row cotton?

[If no skip-row, go to item 12]

a. What was the common skip pattern?

b. What was the average width of the skip?

12. How many acres in the selected field had to be replanted to cotton?

(Acres replanted = Number of acres x Number of times replanted)

13. Was a hybrid cotton seed planted in the selected field?
14. For the 2019 cotton crop, was the cotton seed__________________________

[If item 14 = 1 or 2, ask --]

a. What was the name of the seed treatment?
Write seed treatment name in the box provided__________________________

b. What was the seed treatment code? Enter the appropriate seed treatment code from the Respondent Booklet. Enter "999" if a seed treatment was applied but is not listed. Enter "-1" if the seed treatment is not known.

15. Did you plant GMO/GE seeds for the 2019 or 2018 crop years?_______________________

[If item 15 = 1 for either, continue, otherwise, go to item 17.]

16. Did the cotton planted on the selected field have any of the following genetically modified organism/genetically engineered (GMO/GE) traits in 2019 or 2018? [Leave the second column blank if field was not planted with cotton in 2018.]

a. Insect resistance (Bt)__________________________________________

b. With multiple (pyramided) modes of action_________________________

c. Herbicide Tolerance (HT) to Glyphosate such as Roundup Ready®__________

d. Herbicide Tolerance (HT) to 2, 4-D such as Enlist®____________________

e. Herbicide Tolerance (HT) to Dicamba such as Extend®__________________

f. Herbicide Tolerance (HT) to Glufosinate such as Liberty Link®___________

17. Did the cotton planted on the selected field have any of the following non-genetically modified/genetically engineered (non-GMO/non-GE) traits in 2018 or 2019? [Leave the second column blank if field was not planted with cotton in 2018.]

a. Bacterial blight resistance________________________________________

b. Root-Knot nematode (RKN) resistance______________________________

c. Verticillium wilt tolerance________________________________________

d. Fusarium wilt tolerance such Race 4 FOV____________________________

18. For the 2019 cotton crop, did you plant a commercial seed product on the selected field?__________

[If item 18 = 1, ask--]

a. What was the name of the seed product?
Write the seed product name in the box provided (e.g. DP1820B3XF, PHY250 W3FE, ST4550GLTP)_________________________

b. What was the seed product code? Enter the appropriate product code from the Respondent Booklet. Enter "999" if a seed product was purchased but the product is not listed. Enter "-1" if the product is not known.
19. Did you use a genetically engineered, insect resistant seed variety for the 2019 crop?............
   Yes=1  No=3  
   [If item 19 = 1, ask--]
   a. Did you choose the resistant seed variety used on the selected field primarily to--...........
      1 Increase yields through improved pest (weed or insect) control?
      2 Decrease pesticide input costs?
      3 Save management time or labor or improve ease of management?
      4 Reduce refuge requirements?
      5 For some other reason(s)? Specify: ____________________________

20. Was a refuge for insect pests planted on the selected field?...........................................
   Yes=1  No=3  
   [If item 20 = 1 continue, otherwise go to item 23.]

21. What percent of the selected field was used as refuge in order to comply with Bt cotton insect resistant management guidelines?............................................................................

22. What is the size in acres of the refuge? Refuge may be adjacent to the field or a separate block within 1/2 mile of the field..................................................................................

23. Has harvest of the selected field been completed?.........................................................
   Yes=1  No=3

Now I need information about the acres harvested or to be harvested and the yields from the selected field.

24. How many acres in the selected cotton field were or will be--
   Acres
   a. harvested for lint?..........................................................
   b. abandoned?..............................................................

<table>
<thead>
<tr>
<th></th>
<th>1 What yield per acre did you or do you expect to get for cotton lint--</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units per Acre</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>2346</td>
<td></td>
</tr>
<tr>
<td>1351</td>
<td></td>
</tr>
</tbody>
</table>

Unit code:
1 Pounds
2 CWT
3 Tons

Code
25. Please report the history of crops on the majority of the selected field, including cover crops.

<table>
<thead>
<tr>
<th>Season and Year</th>
<th>Crop Name</th>
<th>Crop Code</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Spring/Summer of 2017?.................</td>
<td>Cotton</td>
<td>283</td>
<td>1486</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Fall of 2018?..........</td>
<td></td>
<td>1343</td>
<td>1487</td>
<td>1470</td>
<td>1471</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Spring/Summer of 2018?.................</td>
<td></td>
<td>1369</td>
<td>1488</td>
<td>1472</td>
<td>1473</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Fall of 2017?.........</td>
<td></td>
<td>1372</td>
<td>1489</td>
<td>1474</td>
<td>1475</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>e. Spring/Summer of 2017?.................</td>
<td></td>
<td>1375</td>
<td>1490</td>
<td>1476</td>
<td>1477</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>f. Fall of 2016?.........</td>
<td></td>
<td>1378</td>
<td>1491</td>
<td>1478</td>
<td>1479</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>g. Spring/Summer of 2016?.................</td>
<td></td>
<td>1381</td>
<td>1492</td>
<td>1480</td>
<td>1481</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>h. Fall of 2015?.........</td>
<td></td>
<td>1366</td>
<td>1493</td>
<td>1482</td>
<td>1483</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>i. Spring/Summer of 2015?.................</td>
<td></td>
<td>1340</td>
<td>1494</td>
<td>1484</td>
<td>1485</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) No-till means leaving soil and previous crop residue undisturbed from harvest to planting. Strip-till means tilling a narrow strip over the row, leaving soil and previous crop residue between the rows undisturbed.

[If a cover crop was planted in Spring/Summer/Fall 2018, ask--]

j. What was the seed cost per acre for the cover crop?..............................................................

k. What was the per-acre cost-share or financial assistance payments received for the cover crop? [Enter zero if no program payment was received.]

26. Has any part of the selected field been classified as "Highly Erodible Land"? Cropland identified as highly erodible is subject to highly erodible land conservation (HELC) requirements. Producers who receive farm program payments are required to have and apply a written soil conservation plan. A "written plan" is a plan prepared in accordance with Federal, State, or district standards..............................................................
27. Do you have a written conservation plan that specifies practices to control soil erosion?.........

28. Does the selected field contain a wetland? Wetlands are subject to Wetland Conservation (WC) or "swampbuster" requirements. Producers who receive farm program payments must refrain from draining wetlands to make them ready for crop production.............................

29. What is the slope of the selected field?..........................

30. What is the primary soil texture of the selected field?........

31. Next we will ask about soil and water concerns that you have on the selected field.

<table>
<thead>
<tr>
<th>Code</th>
<th>In the selected field, are you concerned about any of the following?</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes=1</td>
<td>Have you received technical assistance from any of the following sources to evaluate this resource concern? Report up to 2 sources that you received assistance from:</td>
<td></td>
</tr>
<tr>
<td>No=3</td>
<td>Source 1</td>
<td>Source 2</td>
</tr>
<tr>
<td>2407</td>
<td>a. Water-driven erosion...........................................</td>
<td>2417</td>
</tr>
<tr>
<td>2408</td>
<td>b. Wind-driven erosion.............................................</td>
<td>2418</td>
</tr>
<tr>
<td>2409</td>
<td>c. Soil compaction................................................</td>
<td>2419</td>
</tr>
<tr>
<td>2410</td>
<td>d. Poor drainage...................................................</td>
<td>2420</td>
</tr>
<tr>
<td>2411</td>
<td>e. Low organic matter.............................................</td>
<td>2421</td>
</tr>
<tr>
<td>2412</td>
<td>f. Water quality...................................................</td>
<td>2422</td>
</tr>
<tr>
<td>2413</td>
<td>g. Other concerns..................................................</td>
<td>2423</td>
</tr>
<tr>
<td>2414</td>
<td>h. *No significant concerns.......................................</td>
<td>2424</td>
</tr>
</tbody>
</table>

*Enumerator Note: Enter Yes=1 for item h, No significant concerns, only if the respondent replies No=3 to all other concerns (items a - g).
33. Has the selected field been in any conservation program contracts for which you or your landlord received or expected to receive cost-sharing payments, stewardship payments, or incentive payments?

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Current</th>
<th>Past</th>
<th>Never</th>
</tr>
</thead>
<tbody>
<tr>
<td>2611</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2612</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2613</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2614</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- a. Environmental Quality Incentives Program (EQIP)
- b. Conservation Stewardship Program (CSP)
- c. Conservation Reserve Program (CRP)
- d. Other Federal, State, Local, or non-Government source

NOTES:
34. Now I need information on soil, crop, and land management practices or activities used on the selected field and any financial or technical assistance you may have received in conjunction with those practices.

a. From this list, please check any practices or activities that you used on the selected field this year or at any time in the past.

<table>
<thead>
<tr>
<th>Practice or Activity on the Selected Field</th>
<th>Practice Code (see item 34a)</th>
<th>On the selected field for this practice, have you ever received at any time—</th>
<th>Does this practice or activity help satisfy—</th>
<th>Was this practice or plan used on the selected field in 2019?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Technical or planning assistance?</td>
<td>Financial Assistance?</td>
<td>Yes=1 No=3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 USDA NRCS field staff, cooperative extension, or technical service providers</td>
<td>1 Environmental Quality Incentive Program (EQIP)</td>
<td>1 A federal regulatory requirement</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 Other sources of assistance</td>
<td>2 Conservation Stewardship Program (CSP)</td>
<td>2 Highly erodible land conservation compliance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3 No assistance needed</td>
<td>3 Conservation Reserve Program (CRP)</td>
<td>3 Does not relate to any regulation or compliance requirement</td>
</tr>
</tbody>
</table>

b. For each practice or activity checked in 34a, please complete one line of this table.
35. In 2019, was the cotton in the selected field covered by a single or named peril crop insurance policy (e.g. hail, replant, wind, freeze)? ...........................................................

[If item 35 = 1 ask, otherwise go to item 36.]

a. In 2019, was the cotton in the selected field covered by more than one single or named peril crop insurance policies (e.g. hail, replant, wind, freeze)? ...........................................................

b. What was the dollar amount of coverage per acre for the single peril policy covering the selected field? ..........................................................................................................................

c. What was the percent deductible for the single peril policy covering the selected field? [Record no deductible as "0.".] ..........................................................................................................................

d. What premium cost per acre did you pay for the single peril policy covering the selected field? ....

e. Did you or will you collect an indemnity payment for the selected field from the single peril policy during 2019? ..........................................................................................................................

36. In 2019, was the cotton in the selected field covered by a multi-peril crop insurance policy? ...

[If item 36 = 1 continue, otherwise go to Section C]

a. Which coverage did you obtain? ........................................

1 Federal CAT - basic catastrophic insurance
2 Yield Protection (YP)
3 Revenue Protection (RP)
4 Other multi-peril crop insurance

[If item 36a = 2, ask--]

i. What percent of yield coverage did you select for the selected field? ..........................................................

ii. What percent of price coverage did you select for the selected field? ..........................................................

[If item 36a = 3, ask--]

iii. What percent of revenue coverage did you select for the selected field? ..........................................................

b. What type of unit coverage did you purchase for the selected field? ........................................

1 Basic
2 Optional
3 Enterprise

c. In what year did you, the operator listed on the label, first purchase multi-peril crop insurance on the selected field? ..........................................................................................................................

d. What is the 2019 Approved APH (actual production history) yield for the selected field? ...

e. What was the premium paid for multi-peril crop insurance for the selected field in 2019? EXCLUDE any sign-up fee ..........................................................................................................................

f. Did you or will you collect an indemnity payment for the selected field from multi-peril crop insurance during 2019? ..........................................................................................................................

1. Were commercial nutrients or fertilizers applied to the selected field for the 2019 cotton crop? INCLUDE those from operators, landlords, and contractors. [Yes=1 No=3] [If item 1 = 1 continue, otherwise go to item 6]

2. How many commercial nutrient or fertilizer applications were made to the selected field for the 2019 crop? INCLUDE applications made by airplanes and custom applicators.

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

**CHECKLIST**

**INCLUDE**
- Custom applied nutrients or fertilizers
- Nutrients or fertilizers applied in the fall of 2018 and those applied earlier if the selected field was fallow in 2018.
- Commercially prepared manure or compost

**EXCLUDE**
- Micronutrients
- Unprocessed manure
- Nutrients or fertilizers applied to previous crops in the selected field
- Lime and gypsum/landplaster

### Application Codes for Column 6
- 1 Broadcast, ground without incorporation
- 2 Broadcast, ground with incorporation
- 3 Broadcast, by aircraft
- 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

<table>
<thead>
<tr>
<th>LINE</th>
<th>Materials Used</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>[Enter percentage analysis or actual pounds of plant nutrients applied per acre.]</td>
<td>[Show Common Nutrients or Fertilizers in Respondent Booklet]</td>
<td>What quantity was applied per acre?</td>
<td>[Enter material code]</td>
<td>When this applied?</td>
<td>How was this applied?</td>
<td>How many acres in the selected field were treated in this application?</td>
</tr>
<tr>
<td>01</td>
<td>N</td>
<td>Nitrogen</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>02</td>
<td>P₂O₅</td>
<td>Phosphate</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>03</td>
<td>K₂O</td>
<td>Potash</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>04</td>
<td>S</td>
<td>Sulfur</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>05</td>
<td>N</td>
<td>Nitrogen</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>06</td>
<td>P₂O₅</td>
<td>Phosphate</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>07</td>
<td>K₂O</td>
<td>Potash</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
<tr>
<td>08</td>
<td>S</td>
<td>Sulfur</td>
<td>31</td>
<td>32</td>
<td>33</td>
<td>34</td>
<td>36</td>
</tr>
</tbody>
</table>
4. Were any nutrients or fertilizers applied by custom applicators? ..............................................
   Yes=1  No=3  0214

   [If item 4=1 continue, otherwise go to item 5.]
   a. Are you able to report the cost of nutrient or fertilizer materials and custom application
      separately? ..............................................................................................................................
   Yes=1  No=3  0216

   [If item 4a = 1 continue, otherwise go to item 5.]

   b. Excluding the cost of the nutrient or fertilizer materials, how much was
      spent for custom application of nutrients or fertilizers on the selected
      field? INCLUDE operator, landlord, and contractor costs. INCLUDE
      costs for sulfur and micronutrients. EXCLUDE custom application of
      lime, gypsum, purchased manure and purchased compost. .........................

   [If material and application costs can't be separated, exclude them here and record the total in item 5.]

5. What was the total cost of all nutrient or fertilizer products applied to the
   selected field? INCLUDE operator, landlord, and contractor costs as well as
   the costs for sulfur and micronutrients. INCLUDE materials applied to the
   selected field if it was fallow in 2018. EXCLUDE lime, gypsum, purchased
   manure, and purchased compost........................

   [If custom applied and the cost of materials can be separated from application costs, include the cost of
   materials only, otherwise, include both the material and application costs.]

6. Was gypsum applied to the selected field for the 2019 cotton crop?.................................

7. Was a soil test for soil organic matter performed on this cotton field at some point in the last
   10 years?............................................................................................................................
   Yes=1  No=3  0218  3225

   [If item 7 = 1, ask--]
   a. What was the percentage of soil organic matter on the selected field for the most recent test?.....

   b. How many times have you tested the selected field for soil organic matter in the last 10 years?...
   [If item 7b is more than 1, ask--]
   c. Based on these tests, is your soil organic matter content? ...........................................
      1 Increasing
      2 Decreasing
      3 Staying roughly the same

8. Was a soil or plant tissue test performed on the selected cotton field in 2018 or 2019 for the
   2019 crop? ............................................................................................................................
   Yes=1  No=3  0224

   [If item 8 = 1, continue, otherwise go to item 13.]

9. Was a soil test for phosphorus performed on the selected cotton field in 2018 or 2019 for the
   2019 crop? ............................................................................................................................
   Yes=1  No=3  0225

   [If item 9 = 1 ask--]
   a. How many pounds of phosphorus per acre were recommended by the phosphorus test?..............

10. Was a soil test for nitrogen performed on this cotton field in 2018 or 2019 for the 2019 crop?...
    [If item 10 = 1, ask--]
    a. How many pounds of nitrogen per acre were recommended by the nitrogen test?.......................
11. Was a plant tissue test or leaf analysis for nutrient deficiency performed on the selected field in 2018 or 2019 for the 2019 crop? .................................................................

12. How much was spent for these soil and plant tissue tests on the selected field? INCLUDE operator, landlord, and contractor costs.........................................................

[If tests were done at no cost, continue, otherwise go to item 12b.]

   a. What is the reason why tests were done at no cost?..............................
      1 Soil/plant tissue test provided free of charge by dealer, crop consultant, or extension service
      2 Soil/plant tissue test costs were included in the total fertilizer costs reported in item 5
      3 Some other reason

   b. Did you receive a payment from the Conservation Stewardship Program for performing a stalk or leaf tissue test for nitrogen application?................................

[Enumerator Action: Refer to the Fertilizer Table, column 2. If nitrogen (N) was applied, complete item 13. If no nitrogen applied, go to item 14.]

13. Was the amount of nitrogen you decided to apply to the selected field based on--

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

[If nitrogen inhibitors were used, continue, otherwise go to item 14.]

   h. How much nitrogen inhibitor did you mix with the nitrogen applied to the selected field?.................................

14. Is lime ever applied to the selected field?................................................................

[If item 14 = 1 continue, otherwise go to item 15.]

   a. On average, how many years are there between applications of lime to the selected field?........
   b. How many tons of lime were applied per acre the last time it was applied to the selected field?....
   c. Was lime applied to the selected field in 2018 or 2019 for the 2019 crop?......................
15. Was non-commercial (unprocessed) manure from own farm, from a neighbor's farm, etc., or other organic material, including compost, applied to the selected field for the 2019 cotton crop? EXCLUDE commercially prepared manure. [If item 15 = 1 continue, otherwise go to Section D.]

- a. To how many acres in the selected field was manure or compost applied? 

- b. What was the amount of manure or compost applied to the selected field? 

<table>
<thead>
<tr>
<th>Code</th>
<th>Units per Acre</th>
<th>OR</th>
<th>Total Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>0248</td>
<td>.___</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0249</td>
<td>.___</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0250</td>
<td>.___</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- c. Of the total manure or compost applied to the selected field for the 2019 cotton crop, what was the percent of manure or compost applied—

1. in the Fall before planting? 
2. in the Spring before planting? 
3. after planting? 

- d. Was the manure or compost—

- e. Was the manure or compost—

<table>
<thead>
<tr>
<th>Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0258</td>
<td></td>
</tr>
</tbody>
</table>

- f. Was the major source of manure or compost—

<table>
<thead>
<tr>
<th>Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0259</td>
<td></td>
</tr>
</tbody>
</table>

- g. Was the manure or compost—

[If item 15g = 2, continue, otherwise go to item 15h.]

- i. What was the total cost of the purchased manure or compost applied to the selected field? INCLUDE operator, landlord, and contractor costs. INCLUDE any payment made for transportation costs. 

<table>
<thead>
<tr>
<th>Code</th>
<th>Dollars &amp; Cents per Acre</th>
<th>OR</th>
<th>Total Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>0284</td>
<td>.___</td>
<td></td>
<td>0285</td>
</tr>
</tbody>
</table>

- ii. Did you hire someone to custom apply the manure or compost?  

[If item 15gii = 1, ask—]

- iii. What was the total cost paid to have manure or compost custom applied to the selected field? INCLUDE operator, landlord, and contractor costs. 

<table>
<thead>
<tr>
<th>Code</th>
<th>Dollars &amp; Cents per Acre</th>
<th>OR</th>
<th>Total Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>0287</td>
<td>.___</td>
<td></td>
<td>0288</td>
</tr>
</tbody>
</table>

[Do not report custom application cost if it was included with the purchased manure cost.]
h. What is the distance in miles between the manure or compost storage/production location and the selected field?

\[ \text{Miles} \] 0291

i. Of the manure or compost applied to the selected field, was any tested for nutrient content prior to application?

\[ \text{Yes}=1 \quad \text{No}=3 \] 0261

16. Were the manure application rates to the selected field influenced by Federal, State, or local restrictions?

[If item 16 = 1, ask--]

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

i. Nitrogen requirement of the crop?

\[ \text{Yes}=1 \quad \text{No}=3 \] 0265

ii. Phosphorus requirement of the crop?

\[ \text{Yes}=1 \quad \text{No}=3 \] 0266
Now I have some questions about all the biocontrols or pesticides used on the selected field for the 2019 cotton crop, including both custom applications and applications made by this operation.

1. Were any herbicides, insecticides, fungicides or other biocontrols or pesticides used on this cotton field for the 2019 crop? [Probe for applications made in the fall of 2018 and those made earlier if the selected field was fallow.]

If no biocontrols or pesticides applied, go to Section E.

### INCLUDE defoliants, fungicides, herbicides, insecticides, and other pesticides.

### INCLUDE biological and botanical pesticides.

### EXCLUDE adjuvants, nutrients or fertilizers reported earlier and seed treatments.

| Device Product Name | Line | What products were applied to the selected field? | Was this product bought in liquid or dry form? | If this was part of a tank mix, enter line number of first product in mix. | When was this applied? | How much was applied per acre per application? | OR | What was the total amount applied per application in the selected field? |
|---------------------|------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------|-----------------------|-----------------------------------------------|____|--------------------------------------------------------------------------------|
| 01                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 02                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 03                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 04                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 05                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 06                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 07                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 08                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 09                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 10                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 11                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 12                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 13                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |
| 14                  | 61   | 63                                            | 64                                            | 65                                                                             | 73                    | 74                                             |     |                                                                                  |

2. For biocontrols or pesticides not listed in Respondent Booklet, specify—

| Line | Pesticide Type (Herbicide, Insecticide, Fungicide, etc.) | EPA No. or Trade Name and Formulation | Form Purchased (Liquid or Dry) | Where Purchased (Ask only if EPA No. cannot be reported) |
### Applications Codes for Column 9

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Broadcast, ground without incorporation</td>
<td>6</td>
<td>Chiseled/injected or knifed in</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Broadcast, ground with incorporation</td>
<td>7</td>
<td>Banded in or over row</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Broadcast, by aircraft</td>
<td>8</td>
<td>Foliar or directed spray</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>In seed furrow</td>
<td>9</td>
<td>Spot treatments</td>
<td></td>
</tr>
</tbody>
</table>

#### ENUMERATOR NOTE:

Use the Optional Item 4 columns shown below only if Total Cost, item 4 on next page cannot be provided.

<table>
<thead>
<tr>
<th>LINE</th>
<th>9 How was this product applied? [Enter code from above.]</th>
<th>10 How many acres in the selected field were treated with this product?</th>
<th>11 How many times was it applied?</th>
<th>12 Were these applications made by—</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acres</td>
<td>Number</td>
<td></td>
<td>Operator, partner, or family member?</td>
</tr>
<tr>
<td>01</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>02</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>03</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>04</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>05</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>06</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>07</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>08</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>09</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>10</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>11</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>12</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>13</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td>14</td>
<td>76</td>
<td>77</td>
<td>79</td>
<td>80</td>
</tr>
</tbody>
</table>

#### Optional Item 4

What was the cost per unit of the product?

<table>
<thead>
<tr>
<th>Unit Code</th>
<th>Dollars &amp; Cents per Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
<tr>
<td>81</td>
<td>82</td>
</tr>
</tbody>
</table>
3. Were any chemicals, biocontrols, or pesticides applied by custom applicators?  
   [If item 3 = 1 ask, otherwise go to item 4.]  
   a. Are you able to report the cost of chemical, biocontrol, and pesticide products and  
      custom application separately?  
   [If item 3a = 1, ask--]  
   b. Excluding the cost of the chemical, biocontrol, and pesticide products,  
      how much was spent for custom application of such materials on the  
      selected field? INCLUDE operator, landlord, and contractor costs.  

4. What was the total cost of all chemical, biocontrol, or pesticide products  
   applied to the selected field? INCLUDE operator, landlord, and contractor costs,  
   defoliants, herbicides, insecticides, fungicides, surfactants, wetting  
   agents, growth regulators, and materials applied before planting and during  
   2018 fallow period. EXCLUDE seed treatments.  
   a. How much was spent for herbicide products applied to the selected  
      field? INCLUDE operator, landlord, and contractor costs.  
   b. How much was spent for insecticide products applied to the selected  
      field? INCLUDE operator, landlord, and contractor costs.  

Note 1: If respondent cannot report total cost, itemize cost for each product in optional columns in Biocontrol or Pesticide Table.  
Note 2: If custom applied and the costs for materials can be separated from application costs, include the cost for materials only.  
Otherwise, report both the material and application costs in item 4.

5. Was the cotton that was grown in the selected field in 2019 covered by the boll weevil  
   eradication program (BWEP)?  
   [If item 5 = 1, ask--]  
   a. What phase has the eradication program  
      reached in the selected field?  
   b. For 2019, what was your assessment on the selected field to participate in  
      the BWEP? INCLUDE operator, landlord and contractor charges for 2019.  
   c. How did the level of secondary cotton pests in 2019  
      compare with the level prior to participating in the  
      BWEP? (e.g., beet armyworm, budworms, plant bugs,  
      or aphids)
Ask for California and Texas only

6. Was the cotton in the selected field covered by an area-wide pink bollworm eradication or suppression program (PBWP)?

[If item 6 = 1, ask--]

a. For the current crop year, what was the cost on the selected field to participate in the PBWP?

[INCLUDE operator, landlord, and contractor costs per acre and/or per bale charges for this year's cotton. If you receive a credit on your PBWP assessment for planting Bt cotton to control pink bollworm, report only the amount of the assessment you, your landlord, or your contractor paid.]

<table>
<thead>
<tr>
<th>Code</th>
<th>Yes=1</th>
<th>No=3</th>
</tr>
</thead>
<tbody>
<tr>
<td>0341</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dollars &amp; Cents per Acre</th>
<th>OR</th>
<th>Dollars &amp; Cents per Bale</th>
</tr>
</thead>
<tbody>
<tr>
<td>0342 . . . .</td>
<td></td>
<td>0343 . . . .</td>
</tr>
</tbody>
</table>
Now I have some questions about your pest management decisions and practices used on the selected field for the 2019 cotton crop. By pests, we mean weeds, insects, and diseases.

[Enumerator Action: Were pesticide applications reported in Section D?]

☐ Yes - Continue  ☐ No - Go to item 6

1. Were weather data used to assist in determining either the need or when to make pesticide applications? ..........................................................................................................................................................................

2. Were any biological pesticides such as Bt (Bacillus thuringiensis), insect growth regulators, neem or other natural/biological based products sprayed or applied to manage pests in the selected field? ..........................................................................................................................................................................

3. Were pesticides with different mechanisms of action rotated or tank mixed for the primary purpose of keeping pests from becoming resistant to pesticides? ..........................................................................................................................................................................

[Enumerator Action: Were herbicide (pesticide product codes 10000-99000) applications reported in Section D, item 1, column 2?]  

☐ Yes - Continue  ☐ No - Go to item 6

4. Were herbicides applied to this cotton field before weeds emerged? ..........................................................................................................................................................................

5. Were herbicides applied to this cotton field after weeds emerged? ..........................................................................................................................................................................

6. Were records kept for the selected field to track the activity or numbers of weeds, insects, or diseases? ..........................................................................................................................................................................

7. Did you use published information on infestation thresholds to determine when to take measures to manage pests in the selected field? ..........................................................................................................................................................................

8. In 2019, how was the selected field primarily scouted for insects, weeds, diseases, and/or beneficial organisms? ..........................................................................................................................................................................

1 By deliberately going to the field specifically for scouting activities [Enter code 1 and go to item 9.]
2 By conducting general observations while performing routine tasks [Enter code 2 and go to item 11.]
   The selected field was not scouted. [Enter code 3 and go to item 13.]

9. Was an established scouting process such as systematic sampling, recording counts, etc. used or were insect traps used in the selected field? EXCLUDE traps checked as part of either BWEP or PBWP. ..........................................................................................................................................................................

   a. Did you measure the damage of budworm or bollworm infestations on the selected field?

   [If item 9a = 1, ask--]

   b. If traps were used, what was the average insect count per acre? ..........................................................................................................................................................................

      i. If boll damage scores were recorded (1 to 4), what was the average boll damage score per acre? ..........................................................................................................................................................................

         1 Damage in 1 locule
         2 Damage in 2 locules
         3 Damage in 3 locules
         4 Damage in all locules
         5 Not applicable

10. Was scouting for pests done in the selected field due to--

   a. a pest advisory warning? ..........................................................................................................................................................................

   b. a pest development model? ..........................................................................................................................................................................

               Yes=1  No=3
11. Was this cotton field scouted for--

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yes=1</td>
<td>No=3</td>
</tr>
<tr>
<td>a. weeds?</td>
<td>0812</td>
<td>0813</td>
</tr>
<tr>
<td>b. insects or mites?</td>
<td>0815</td>
<td>0816</td>
</tr>
<tr>
<td>c. diseases?</td>
<td>0818</td>
<td>0819</td>
</tr>
</tbody>
</table>

[If scouted by crop consultant or commercial scout, ask item 12, otherwise go to item 13.]

12. How much was charged for the scouting services for the selected field? INCLUDE operator, landlord, and contractor costs. 

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dollars &amp; Cents per Acre</td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>0821</td>
<td></td>
</tr>
</tbody>
</table>

   a. If scouting performed at no cost, explain: ________________________________

13. Did you use field mapping of previous weed problems to assist you in making weed management decisions? ________________________________

14. Did you do any of the following other types of pest management for the specific purpose of managing or reducing the spread of pests in the selected field?

   a. Use the services of a diagnostic laboratory for pest identification or soil plant tissue pest analysis for the selected field? ________________________________

   b. Plow down crop residue using conventional tillage? ________________________________

   c. Remove/burn down crop residue? ________________________________

   d. Rotate crops in the selected field during the past three years? ________________________________

   e. Maintain ground covers, mulches, or other physical barriers? ________________________________

   f. Choose crop variety because of specific resistance to a certain pest? ________________________________

   g. Use no-till or minimum till? ________________________________

   h. Plan planting locations to avoid cross infestation of pests? ________________________________

   i. Adjust planting or harvesting dates? ________________________________

   j. Chop, spray, mow, plow, or burn field edges, lanes, ditches, roadways, or fence lines? ________________________________

   k. Clean equipment and field implements after completing field work to reduce the spread of pests? ________________________________

   l. Adjust row spacing, plant density, or row directions? ________________________________

   m. Have the seed treated for insect or disease control after you purchased the seed for the selected field? ________________________________

   n. Maintain a beneficial insect or vertebrate habitat? ________________________________
o. Maintain buffer strips or border rows to isolate organic cotton from non-organic crops or land, or did you take a buffer harvest?

<table>
<thead>
<tr>
<th>Code</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0856</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>0857</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>0865</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

p. Use a flamer to kill weeds?

<table>
<thead>
<tr>
<th>Code</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>0853</td>
<td>Y</td>
<td>N</td>
</tr>
<tr>
<td>0858</td>
<td>Y</td>
<td>N</td>
</tr>
</tbody>
</table>

q. Plant earlier or later to avoid weeds?

15. Were any beneficial organisms, such as insects, nematodes, or fungi, applied or released in the selected field to manage pests?

16. Were floral lures, attractants, repellants, pheromone traps, or other biological pest controls used on the selected field?

[If item 15 or item 16 = 1, ask--]

a. What were the total materials and application costs for all biological pest controls for the selected field? INCLUDE operator, landlord, and contractor costs. INCLUDE cost for beneficial organisms, insects, nematodes, and fungi. EXCLUDE biological pesticides previously reported.

<table>
<thead>
<tr>
<th>Dollars &amp; Cents per Acre</th>
<th>OR</th>
<th>Total Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>0859</td>
<td>0860</td>
<td></td>
</tr>
</tbody>
</table>

17. Was a trap crop, excluding fallow, grown to help manage insects in the selected field?

18. Was the selected field left in fallow in 2018 to help manage insects on the selected field?

19. Were water management practices such as irrigation scheduling, controlled drainage, or treatment of retention water used on the selected field to manage pests or toxin-producing fungi and bacteria?

20. What was the difference in yields in the Bt crop with the yields in the non-Bt refuge crop?

<table>
<thead>
<tr>
<th>Units per Acre</th>
<th>1810</th>
<th>1811</th>
</tr>
</thead>
</table>

21. Did you use a soil-insecticide or insecticidal seed treatment in the refuge in 2019?

22. Did pests such as weeds, insects, pathogens, or animals, cause any yield loss on the selected field in spite of your pest control efforts?

[If item 22 = 1, ask--]

a. How much yield loss do you think was caused by all pests on the selected field in spite of the management practices you used to reduce those losses?

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Bales</td>
</tr>
<tr>
<td>2 Pounds</td>
</tr>
<tr>
<td>Code 0828</td>
</tr>
<tr>
<td>AND</td>
</tr>
<tr>
<td>Code 0829</td>
</tr>
<tr>
<td>OR</td>
</tr>
<tr>
<td>Code 0830</td>
</tr>
</tbody>
</table>

23. If you used Bt seeds on the selected field in 2019, indicate the number of consecutive years you have planted Bt seeds.

[Note: A producer who used Bt cotton in 2019 and 2018, but conventional in 2017, has used Bt cotton for “2” consecutive years.]

[If item 23 is greater than 1, ask--]

a. If you have ever switched from a Bt seed with a single mode of action to a Bt seed with multiple (pyramided) modes of action, indicate the year that this change was made.

<table>
<thead>
<tr>
<th>Year</th>
<th>0832</th>
</tr>
</thead>
</table>
24. If you used Ht seeds on the selected field in 2019, indicate the number of consecutive years you have planted Ht seeds.

[Note: A producer who used Ht cotton in 2019 and 2018, but conventional cotton in 2017, has used Ht cotton for “2” consecutive years.]

   a. What year did you first plant any Ht seeds on the selected field?

25. If you used GMO/GE glyphosate-resistant seeds on the selected field in 2019, indicate the number of consecutive years you have planted GMO/GE glyphosate-tolerant crops.

[If item 25 = 1 continue, otherwise go to Section F.]

   a. What year did you plant any GMO/GE glyphosate-tolerant seeds on the selected field?

26. Have any of the following herbicides been used on the selected field in the specified years since?

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Glyphosate (e.g. Roundup®)</td>
<td>2001</td>
<td>2002</td>
<td>2003</td>
<td>2004</td>
<td>2005</td>
</tr>
<tr>
<td>b. Glufosinate (e.g. Liberty®)</td>
<td>2006</td>
<td>2007</td>
<td>2008</td>
<td>2009</td>
<td>2010</td>
</tr>
<tr>
<td>c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)</td>
<td>2011</td>
<td>2012</td>
<td>2013</td>
<td>2014</td>
<td>2015</td>
</tr>
<tr>
<td>d. 2, 4-D (e.g. Enlist®)</td>
<td>2016</td>
<td>2017</td>
<td>2018</td>
<td>2019</td>
<td>2020</td>
</tr>
</tbody>
</table>

27. Have herbicide tolerant seeds been planted on the selected field any time since 2015?

[If item 27 = 1 continue, otherwise go to item 28.]

<table>
<thead>
<tr>
<th>For herbicide tolerant seeds that are tolerant of-</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
<th>2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Glyphosate (e.g. Roundup®)</td>
<td>2022</td>
<td>2023</td>
<td>2024</td>
<td>2025</td>
<td>2026</td>
</tr>
<tr>
<td>b. Glufosinate (e.g. Liberty®)</td>
<td>2027</td>
<td>2028</td>
<td>2029</td>
<td>2030</td>
<td>2031</td>
</tr>
<tr>
<td>c. Dicamba (e.g. Xtend®, Xtendimax®, Engenia®)</td>
<td>2032</td>
<td>2033</td>
<td>2034</td>
<td>2035</td>
<td>2036</td>
</tr>
<tr>
<td>d. 2, 4-D (e.g. Enlist®)</td>
<td>2037</td>
<td>2038</td>
<td>2039</td>
<td>2040</td>
<td>2041</td>
</tr>
</tbody>
</table>
28. If untreated either with insecticides or Bt seeds, how much yield loss (e.g. bales per acre) do you think each of the following would most likely cause on the selected field?

a. bollworms

b. cutworms

c. insect pests other than bollworms or cutworms

29. If untreated either with herbicides, tillage, or cultivation, how much yield loss (e.g. bales per acre) do you think weeds would most likely cause on the selected field?
1. Including custom operations, I need to list field work performed by machines on the selected field for the 2019 cotton crop. Please...

- begin with the first field operation after harvest of previous crop, including operations for a cover crop established since the previous crop harvested. If fallow during 2018, list operations starting with fall 2017.
- list the operations in order through harvest and hauling of this crop to storage or first point of sale; and
- maintain the order of tandem hook-ups.

<table>
<thead>
<tr>
<th>No.</th>
<th>LINE</th>
<th>SEQUENCE</th>
<th>Code</th>
<th>Code</th>
<th>[If Column 5 = code 6, skip columns 6 thru 11]</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record machine code from Respondent Booklet.]</td>
</tr>
<tr>
<td>02</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>03</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>04</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>05</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>06</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>07</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>08</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>09</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>Hauling 4 Pounds 5 Bales</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td></td>
<td>87</td>
<td>88</td>
<td>[Record size unit code.] 1 Feet 2 Row 3 Moldboard bottoms</td>
</tr>
</tbody>
</table>

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

Check List

- INCLUDE all field work using machines for-
  - Land forming/Levee Building
  - Tillage
  - Preparing for irrigation
  - Planting
  - Fertilizer & Pesticide applications
  - Harvesting
  - Module building
  - Hauling from field to gin

- EXCLUDE
  - Lime & Gypsum/land plaster applications
  - Compost & Non-commercial manure applications

If trucks other than pick-ups are used as the power source, use truck codes in Respondent Booklet

Office Use

0499

<table>
<thead>
<tr>
<th>Code</th>
<th>[Enter Code]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0400</td>
<td></td>
</tr>
</tbody>
</table>
2. Now I need some additional information about your labor. Please report the paid and unpaid labor that worked on the selected field to produce the 2019 cotton crop. EXCLUDE labor that was reported for field work performed by machines.

<table>
<thead>
<tr>
<th>Type of Workers</th>
<th>How many hours did (type of worker) spend on the selected field--</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 scouting for weeds, insects and diseases?</td>
</tr>
<tr>
<td></td>
<td>Hours</td>
</tr>
<tr>
<td>You (the operator)</td>
<td>1101</td>
</tr>
<tr>
<td>Partner(s)</td>
<td>1104</td>
</tr>
<tr>
<td>Unpaid workers</td>
<td>1107</td>
</tr>
<tr>
<td>Paid part-time or seasonal workers</td>
<td>1110</td>
</tr>
<tr>
<td>EXCLUDE custom and contract labor</td>
<td></td>
</tr>
<tr>
<td>Paid full-time workers</td>
<td>1113</td>
</tr>
<tr>
<td>EXCLUDE custom and contract labor</td>
<td></td>
</tr>
</tbody>
</table>

3. What was the average hourly wage rate paid to part-time or seasonal hired workers on the selected field? Part-time workers are defined as those who worked for wages or salaries for less than 30 hours a week on average. EXCLUDE custom and contract workers, payroll taxes and benefits.................................

4. What was the average hourly wage rate paid to full-time hired workers on the selected field? EXCLUDE custom and contract workers, payroll taxes and benefits...........................................................................................................................

5. Was any contract labor used on the selected field?............................................................................

[If item 5 = 1, ask--]

a. What was the average cost per acre for this contract labor? INCLUDE operator, landlord, and contractor costs..............................................................

6. What percent of the total number of unpaid hours worked on the selected field was performed by workers under 16 years of age? Estimates of labor costs for unpaid workers are based on off-farm wage rates, which are different for workers under 16 relative to those 16 and older.................................
7. Now I need some information on how much was spent or will be spent for custom services used on the selected field for the 2019 cotton crop.

```
<table>
<thead>
<tr>
<th>Custom Service</th>
<th>Incurring operator, landlord, and contractor costs, how much was spent for [column1] on the selected field for the 2019 cotton crop?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>a. Custom land preparation, shaping and/or leveling?</td>
<td>1121 ___ ___</td>
</tr>
<tr>
<td>b. Custom cultivating?</td>
<td>1122 ___ ___</td>
</tr>
<tr>
<td>c. Custom planting and/or reseeding?</td>
<td>1123 ___ ___</td>
</tr>
<tr>
<td>d. Custom harvesting?</td>
<td>1124 ___ ___</td>
</tr>
<tr>
<td>e. Custom module building?</td>
<td>1125 ___ ___</td>
</tr>
<tr>
<td>f. Custom hauling from field to gin?</td>
<td>1126 ___ ___</td>
</tr>
<tr>
<td>g. Custom harvesting, module building, and hauling from field to gin?</td>
<td>2127 ___ ___</td>
</tr>
</tbody>
</table>

[If custom harvesting, module building, and hauling from field to gin cannot be separated, ask—]

| g. Custom harvesting, module building, and hauling from field to gin? | 2127 ___ ___ |

[Note: Do not report cotton ginning costs. If harvesting, module building, and/or hauling costs cannot be separated from ginning costs, report the nonresponse code (-1) for those costs that cannot be separated.]

8. Did you hire any technical or consultant services to make recommendations such as for nutrient, pest control, irrigation, or precision farming for the selected field? ......................... Yes=1 No=3

9. Which of the following technical or consultant services did you obtain to make recommendations for the selected field?

   a. Nutrient recommendations/management service? .................................................................
   b. Soil or tissue sample collection? ...........................................................................................
   c. Pest control recommendations/management service? ...............................................................
   d. Pest scouting, excluding any activity for the BWEP or PBWP? ...................................................
   e. Irrigation management service such as irrigation scheduling? ....................................................
   f. Yield map or remote sensing data development/interpretation? ..................................................
   g. Other custom or technical service? [Specify: ___________________________] .............................

10. If Yes to any of these services in item 9a-g, what was the cost for all of these services? INCLUDE operator, landlord, and contractor costs. EXCLUDE cost of soil/tissue tests or scouting cost reported earlier. Do not report costs for any of these services if they were previously reported as part of the cost of materials and/or application .........................................................

<table>
<thead>
<tr>
<th>Dollars &amp; Cents per Acre</th>
<th>OR Total Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>1136 ___ ___</td>
<td>1137</td>
</tr>
</tbody>
</table>

11. Please report how any data from the selected field in 2019 will be stored and accessed.
   a. Did you access the data collected from the selected field on a --
      i. Paper hard copy? .................................................................
      ii. Personal computer? ...........................................................
      iii. Mobile device? .................................................................
   b. Did you access the data collected from the selected field through an agricultural technology provider website? .................................................................

[If item 11b = 1 continue, otherwise go to item 12.]

c. Did you opt-out of allowing your agricultural technology provider website to share data collected from the selected field with any third party? .................................................................
d. Did you share any of the data collected from the selected field with a third party through an agricultural technology provider website? .................................................................

12. Were there or will there be any data collection tools such as yield monitors, GPS mapping, etc. used during field operations on this cotton field? .................................................................

[If item 12 = 1, continue, otherwise go to item 13.]

Please report the data collection technologies you used on the selected field in 2019 to produce this crop. In the fifth column, report how much it would cost you to replace the data collection tool. In the sixth column, report the annual costs of using the data collection tool. INCLUDE custom service fees, data subscriptions, and online tool subscriptions. If the replacement cost or annual fee does not apply to a particular data collection tool, leave the cell in that column blank.

<table>
<thead>
<tr>
<th>1</th>
<th>Tool Used</th>
<th>2</th>
<th>Collected GPS coordinates</th>
<th>3</th>
<th>Data was/will be used to create a map</th>
<th>4</th>
<th>Replacement Cost</th>
<th>5</th>
<th>Annual Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>2461</td>
<td>Yes = 1 No = 3</td>
<td>2462</td>
<td>Yes = 1 No = 3</td>
<td>2463</td>
<td>Yes = 1 No = 3</td>
<td>2570</td>
<td>2571</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2464</td>
<td>Yes = 1 No = 3</td>
<td>2465</td>
<td>Yes = 1 No = 3</td>
<td>2466</td>
<td>Yes = 1 No = 3</td>
<td>2572</td>
<td>2573</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2467</td>
<td>Yes = 1 No = 3</td>
<td>2468</td>
<td>Yes = 1 No = 3</td>
<td>2469</td>
<td>Yes = 1 No = 3</td>
<td>2574</td>
<td>2575</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2470</td>
<td>Yes = 1 No = 3</td>
<td>2471</td>
<td>Yes = 1 No = 3</td>
<td>2472</td>
<td>Yes = 1 No = 3</td>
<td>2576</td>
<td>2577</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2473</td>
<td>Yes = 1 No = 3</td>
<td>2474</td>
<td>Yes = 1 No = 3</td>
<td>2475</td>
<td>Yes = 1 No = 3</td>
<td>2578</td>
<td>2579</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2476</td>
<td>Yes = 1 No = 3</td>
<td>2477</td>
<td>Yes = 1 No = 3</td>
<td>2478</td>
<td>Yes = 1 No = 3</td>
<td>2580</td>
<td>2581</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2479</td>
<td>Yes = 1 No = 3</td>
<td>2480</td>
<td>Yes = 1 No = 3</td>
<td>2481</td>
<td>Yes = 1 No = 3</td>
<td>2582</td>
<td>2583</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2482</td>
<td>Yes = 1 No = 3</td>
<td>2483</td>
<td>Yes = 1 No = 3</td>
<td>2484</td>
<td>Yes = 1 No = 3</td>
<td>2585</td>
<td>2586</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[If item 12a column 2 = 1, continue, otherwise go to item 15.]

13. Did you use the yield monitor information to--
   a. add/improve tile drainage? .................................................................
   b. negotiate new crop leases? .................................................................
   c. help determine chemical input use? .................................................................

[If any of item 12 column 2 = 1, continue, otherwise go to item 15]
14. Using data collected from the previous tools table in item 12, did you obtain crop management recommendations, such as data interpretation, in 2019 for the selected field from any of the following--

a. input dealers without other fee-for-services? .................................

b. input dealers with other fee-for-services? ........................................

c. custom service providers? ................................................................

d. USDA/university extension services? ..............................................

[If crop management recommendations were obtained, ask--]

e. What was the cost for all of these services?  INCLUDE operator, landlord and contractor costs. Do not report costs for any of these services if they were previously reported as part of the costs of materials and/or application.................................................................

Dollars & Cents per Acre OR Total Dollars
3150 .__ __
3151

15. Was any of the following GPS-enabled (Global Positioning System) equipment used to produce cotton the selected field in 2019?

a. Mounted in-cab heads-up displays? ..................................................

b. Smart phones or computer tablets? ...................................................

c. Automatic section control, such as auto sprayer boom controls or automatic section shut offs? ...........................................................

16. If any GPS-enabled equipment was used, what was the cost to purchase and install all GPS-enabled equipment, not including guidance auto-steering equipment?  INCLUDE cost for GPS receiver and annual GPS subscription fee, and operator, landlord, and contractor costs. Do not report costs for any of this equipment if they were previously reported as part of the costs of materials and/or application.................................

Dollars & Cents per Acre OR Total Dollars
2166 .__ __
2167

17. Was any guidance auto-steering equipment, excluding Light Bar, used on the selected field?...

[If item 17 = 1 continue, otherwise go to item 18.]

a. Was the guidance auto-steering equipment......................................

b. What year was guidance auto-steering equipment first purchased? ......................

c. What is the replacement cost for guidance auto-steering equipment?........
18. Was a variable rate applicator used on this field? .................................................................

Yes=1

No=3

[If item 18 = 1 continue, otherwise go to Section G]

Please report the variable rate applicator types you used on the selected field to produce the cotton in 2019.

<table>
<thead>
<tr>
<th>1 Was a variable rate applicator used on the selected field for:</th>
<th>2 Tool Used</th>
<th>3 Was this applicator</th>
<th>4 Was this applicator</th>
<th>5 What year was the applicator first used?</th>
<th>6 Premium paid for the applicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. seeding ..................................................</td>
<td>1158</td>
<td>2170</td>
<td>2171</td>
<td>2172</td>
<td>2173</td>
</tr>
<tr>
<td>b. fertilizer/lime applications .............</td>
<td>1152</td>
<td>2174</td>
<td>2175</td>
<td>2176</td>
<td>2177</td>
</tr>
<tr>
<td>c. pesticide applications ......................</td>
<td>1159</td>
<td>2178</td>
<td>2179</td>
<td>2180</td>
<td>2181</td>
</tr>
</tbody>
</table>
1. How many acres in the selected field were irrigated for the 2019 cotton crop? ............................................ 1160

[If none, go to Conclusion]

2. Now I have some questions about the irrigation system and water used on the selected field for the 2019 cotton crop.

   a. What type of irrigation system was used to irrigate the selected field?  
      [Show System Type Codes in the Respondent Booklet. Enter System Type Code for  
      system that applied the most water.] .................................................................

   b. What was the total quantity of water applied to the selected field during the entire growing season?  INCLUDE all water used from both on-farm and off-farm sources and applied by any irrigation system ............................................................

[If operator cannot provide item 2b, ask (i) and (ii), otherwise go to 2c]

   i. What is the total number of hours this system was used to apply water to the  
      selected field during the cotton growing season? ................................................

   ii. How many gallons per minute were applied? ......................................................

   c. What percent of the water used to irrigate the selected field through this system  
      came from surface water sources? .................................................................

   d. What was the number of times the selected field was irrigated during the cotton  
      growing season using this system?  INCLUDE any pre-plant irrigation .................

   e. What was the pump type?  [If more than one pump in the system, enter type for  
      pump closest to water source.] .................................................................

      1 Turbine  
      2 Submersible  
      3 Centrifugal  
      4 Booster  
      5 Siphon  
      99 No Pump  

      [If code 99, go to item j.] ........

   f. What was the average pumping rate? ...............................................................

[If item 2a = code 1-9 (Pressure System), ask--]

   g. What was the system operating pressure? ....................................................

      1 Diesel  
      2 Gasoline  
      3 LP Gas  
      4 Natural Gas  
      5 Electricity  
      6 Solar Power

   h. What was the primary motor type used to pump the water? 

   i. What was the average motor size? .................................................................

[If item 2e = 99, ask--]

   j. What was the average flow rate? .................................................................

   k. How many other acres on this operation were irrigated using the selected field's  
      irrigation system during the 2019 growing season?  EXCLUDE the selected field .......

   [Operation Booklet]
3. What was the cost of the fuel or electricity used to irrigate the selected field? INCLUDE operator, landlord, and contractor costs.  
<table>
<thead>
<tr>
<th>Dollars &amp; Cents per Acre</th>
<th>OR</th>
<th>Total Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>1189</td>
<td>. ___</td>
<td>1190</td>
</tr>
</tbody>
</table>

4. Was any water purchased to irrigate the selected field? INCLUDE landlord's share and purchases from all sources.  
   [If item 4 = 1 continue, otherwise go to item 5.]
   a. What was the total cost for the water purchased for the selected field during the 2019 growing season? INCLUDE operator, landlord, and contractor costs.  
      | Dollars & Cents per Acre | OR | Total Dollars |
      |--------------------------|----|---------------|
      | 1193                     | . ___ | 1194 |
   [If siphon tubes were used, item 2a = 10 or 11, ask--]

5. What would be the total cost to replace all the siphon tubes used on the selected field?  
   [If poly pipe system was used, item 2a = 14, ask--]

6. What was the total amount spent for poly pipe used on the selected field during the 2019 growing season? INCLUDE operator, landlord, and contractor costs.  
   [If gated pipe system was used, item 2a = 15 or 16, ask--]

7. What was the average diameter of gated pipe used to irrigate the selected field?  
   a. What was the total length of gated pipe used?  

8. Were wells used to supply irrigation water for the selected field?  
   [If item 8 = 1 continue, otherwise go to item 9.]
   a. How many wells were used to irrigate the selected field?  
   b. What was the average diameter of the outer well casing?  
   c. What was the average pumping depth of these wells during the irrigation season? Pumping depth is the depth to water at the start of the irrigation season, plus an average decline in the water level caused by pumping during the irrigation season.  
   d. Were other fields irrigated using water pumped from wells that supplied water to the selected field?  
      [If item 8d = 1 continue, otherwise go to item 9.]
   e. Excluding the selected field, how many other acres on this operation were irrigated using the same wells during the 2019 growing season?  

9. Was any additional mainline or lateral pipe used to carry water from the source to the system in the selected field? INCLUDE underground pipe. EXCLUDE any system pipe within the selected field.  
   [If item 9 = 1 continue, otherwise go to Conclusion.]
   a. What was the average diameter in inches of the most common type of this additional pipe used?  
   b. How many feet of this additional pipe were used to bring water to the selected field?
Location of Selected Field

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

1. What county is the selected cotton field in?.................................
   County Name
   State County FIPS Code
   0010__ __ __ __

   a. Field description...............................................................n

   b. Field location.................................................................

   LATITUDE
   N 0054__ __ __ __ __ __ __ __
   d  d  m  m  s  s
   OR
   LATITUDE
   N 0051__ __ __ __ __ __ __ __
   d  d  d  m  m  s  s

   LATITUDE
   W 0055__ __ __ __ __ __ __ __
   d  d  m  m  s  s
   OR
   LATITUDE
   W 0052__ __ __ __ __ __ __ __
   d  d  d  m  m  s  s

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

We will need additional information to complete this study. We will contact you in February or March 2020 to collect it. I'll call you then to set up a time that is good for you.

To receive the complete results of this survey on the release date, to http://www.nass.usda.gov/Surveys/Guide_to_NASS_Surveys/

2. To have a summary emailed to you at a later date, please enter your email address.

   H H M M
   1095

3. Ending time [Military]........................................................................................................
   0005__ __ __ __

Record Use

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

   [fertilizer data]........ Yes=1 No=3
   Code
   0011

   [pesticide data]........ Yes=1 No=3
   Code
   0012

   [majority of this expense data?]........ Yes=1 No=3
   Code
   0013

Supplements Used

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

   Fertilizer Supplement........ Number
   0041

   Pesticide Supplement........ Number
   0042

   Field Operations........... Number
   0043

Reported by: ____________________________ 9910__ __ __ __ __ __ __ __ __ __ __ __ __

9911

Telephone: (______)________

OFFICE USE

<table>
<thead>
<tr>
<th>R. Unit</th>
<th>PTr 1 Str</th>
<th>PTr 2 Str</th>
<th>PTr 3 Str</th>
<th>PTr 4 Str</th>
<th>OPS</th>
<th>SSO 1</th>
<th>ADJ</th>
<th>Optional Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>9921</td>
<td>9922</td>
<td>9923</td>
<td>9927</td>
<td>9928</td>
<td>923</td>
<td>9907</td>
<td>922</td>
<td>9906 9916</td>
</tr>
</tbody>
</table>

Response | Respondent | Mode | Enum. | POID |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Comp</td>
<td>9901</td>
<td>1-Op/Mgr</td>
<td>9989</td>
<td></td>
</tr>
<tr>
<td>2-R</td>
<td>9902</td>
<td>2-Spouse</td>
<td>9900</td>
<td></td>
</tr>
<tr>
<td>3-Inac</td>
<td>9903</td>
<td>3-Acct/Bkpr</td>
<td>9985</td>
<td></td>
</tr>
<tr>
<td>4-Office Hold</td>
<td>9904</td>
<td>4-Partner</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3-PAPI (Face-to-Face)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Eval. Change

| 9905 | 9989 |