Section A Exercise
1. Mr. King has been selected for the 2019 Cotton Production Practices & Cost Report. When you interview him, he tells you he planted thirteen fields of cotton in 2019. On which cotton field will you collect the data?

Answer: ______________
2. Mr. Stout planted three fields of cotton, but abandoned one field because it was hit hard by a recent hail storm. He only plans to harvest two fields of winter wheat. When you interview Mr. Stout which field will be the sample field you collect data on?

Answer: 1

<table>
<thead>
<tr>
<th>ST: 48</th>
<th>cotton</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLD: 1</td>
<td>2 3 4 5 6 7 8 9</td>
</tr>
<tr>
<td>SEL: 1</td>
<td>2 1 1 4 2 1 2 2</td>
</tr>
</tbody>
</table>

| FLD: 10 11 12 13 14 15 16 17 18 |
| SEL: 6 7 7 3 9 2 1 15 17 |

3 fields were planted. Some cost was incurred even for the abandoned field.
3. How do you select the sample field if the operator has more than 18 fields of wheat? What is the correct procedure to follow?

List the 18 fields closest to the homestead. If the operator is unable to list the cotton fields by name, number, or other description, use the field selection grid to draw off (up to 18 of) the operator’s fields closest to the permanent residence.
4. You should list all targeted crop fields planted (up to twenty) prior to using the random number table to select your sample field?

Circle one: TRUE  FALSE

Up to 18
5. The Total Number of cotton fields planted for Item #2 in Section A cannot be greater than 18?

Circle one: TRUE    FALSE

Record Total, but only list 18
6. Mr. Williams has two separate operations, his individual operation and one with his son in a partnership. The partnership operation has been selected for the cotton report. Mr. Williams has a total of 11 cotton fields planted, of which six are on his individual operation. How many fields are then eligible to be selected on the partnership operation?

Answer: 5

Only want fields of the selected operation
Section C Exercise
1). Line 1 A farmer reported that he applied 100 units of Nitrogen.
2). Line 2 A farmer reported that he applied 122 pounds of anhydrous ammonia per acre.
• Be careful that the respondent doesn’t give you the total amount of fertilizer applied to the entire field.

• If a respondent knows only the total pounds of fertilizer or plant nutrients applied to the field and not the rate per acre, you must calculate rate per acre and enter it in the table.
3). The farmer applied a total of 1200 pounds to a sixty acre field, what would the rate per acre be?

HINT: \( \frac{\text{Total Pounds}}{\text{Acre}} = \text{Rate per Acre} \)

rate per acre

\[ \boxed{20} \]
Scenario

- Farmer Waydell has a 220 acre field of cotton

  - To all acres, he applied 60 lbs of a custom mixed fertilizer it contained 11% Nitrogen, and 37% Phosphate, in the fall before seeding, broadcast the ground without incorporation.

  - In the spring before seeding through irrigation water he applied 1 gallon per acre of ammonium thiosulfate solution to 95 and a half acres

  - Shortly after seeding, 90 lbs of Nitrogen was banded on all acres of this field.
- Were commercial nutrients or fertilizers applied to this field for the 2019 cotton crop? [Yes = 1] 
[If COMMERCIAL nutrient or fertilizer applied, continue; else go to Section D.]

- How many commercial nutrient or fertilizer applications were made to this field for the 2019 crop? (Include applications made by airplanes and custom applicators.)

<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>N Nitrogen</td>
<td>P2O5 Phosphate</td>
<td>K2O Potash</td>
<td>S Sulfur</td>
<td>What quantity was applied per acre?</td>
<td>[Enter material code.]</td>
<td>When was this applied?</td>
</tr>
<tr>
<td>01</td>
<td>31</td>
<td>11</td>
<td>32</td>
<td>37</td>
<td>33</td>
<td>0</td>
<td>34</td>
</tr>
<tr>
<td>02</td>
<td>31</td>
<td>12</td>
<td>—</td>
<td>33</td>
<td>—</td>
<td>—</td>
<td>34</td>
</tr>
<tr>
<td>03</td>
<td>31</td>
<td>90</td>
<td>—</td>
<td>33</td>
<td>—</td>
<td>—</td>
<td>34</td>
</tr>
</tbody>
</table>
Please Remember:

• Record applications on the selected field only

• Record treated acres

• The rate per acre for banded applications is about 1/3 the rate for broadcast applications

• If operator has large number of applications in electronic format, contact office.
Reminders…

• Yes & No
  – 1 = Yes
  – 3 = No
  – Dash = None or Zero (0)

• Pay attention to skip instructions
• Fill in the decimals where needed
• Record data in units applied per acre
• Record each application on a separate line
• Use Records and Respondent Booklet
Questions?
Section D Exercise
2019 Section D
Winter Wheat Pesticide Practice Exercise

Please record the applications listed below in the attached pesticide table. Use your Winter Wheat respondent booklet.

Frank Farmer has 21 acres of Winter Wheat in his field. He applied 2.4 pints of Puma Ultra per acre to the entire field once before planting. This pesticide was broadcast, ground with incorporation.

At planting, Frank Farmer applied 2 pints of Puma Ultra and 1 quart of Atrazine 4L per acre in a tank mix. The liquid mix was banded in row to the entire field.

After planting, Frank applied 22 liquid ounces of 2,4-D Amine 4, EPA No. 1381-103, per acre to the field. This herbicide was broadcast, ground without incorporation.

A custom applicator used an airplane to spray 16 liquid ounces of Malathion 8-E Insecticide (see attached product label) per acre over his entire field. This was done four times throughout the growing season.

A couple of weeks later, Frank had someone custom apply a tank mix of 0.5 gallons of Decis 1.5 EC (see attached product label) and 0.8 gallons per acre of Orion on the entire field. The applicator sprayed this liquid mix by aircraft.

Frank then applied one more application of 2,4-D Amine 4 to the field. Just like last time, he broadcast 22 liquid ounces without incorporation.
Note: The 2,4-D Amine 4 can be recorded either way. On one line with the correct number of times or it can be recorded on separate lines for each time.

<table>
<thead>
<tr>
<th>CHEMICAL PRODUCT NAME</th>
<th>LINE</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>OR</th>
<th>7</th>
<th>8</th>
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</thead>
<tbody>
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<td></td>
<td></td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Puma Ultra</td>
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<td>S1</td>
<td>40059</td>
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<td>63</td>
<td>64</td>
<td>1</td>
<td>2.40</td>
<td>73</td>
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<tr>
<td>Puma Ultra</td>
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<td>40136</td>
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<td>2</td>
<td>64</td>
<td>3</td>
<td>1.00</td>
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<tr>
<td>2,4 – D Amine 4</td>
<td>04</td>
<td>S1</td>
<td>40538</td>
<td>L</td>
<td>63</td>
<td>64</td>
<td>4</td>
<td>22.00</td>
<td>73</td>
</tr>
<tr>
<td>Malathion 5-E Insecticide</td>
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<td>S1</td>
<td>L</td>
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<td>64</td>
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<td>16.00</td>
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<td>74</td>
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<tr>
<td>Decis 1.5 E</td>
<td>06</td>
<td>S1</td>
<td>L</td>
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<td>64</td>
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<td>0.50</td>
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<td>74</td>
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<td>64</td>
<td>4</td>
<td>22.00</td>
<td>73</td>
<td>74</td>
</tr>
</tbody>
</table>

2. [For biocontrols or pesticides not listed in Respondent Booklet, specify---]
• If field has not been harvested yet,
  – Probe the respondent for any applications he/she plans to make on this field prior to harvest.
Section F Exercise
In October 2018 the operator plowed the 20 acre field after harvesting the previous crop using a subsoiler chisel with a 20 foot swath. This operation used a 48 HP John Deere 620 tractor which uses LP gas.

Also in October, the operator cultivated the field using a regular digger with a 24 foot swath using the same tractor. In April, his partner used a spring tooth harrow with a 20 foot swath to plow the field a second time using his 63 HP Long 660 which uses diesel fuel. The operator applied fertilizer just before planting, using a 20 foot swath self-propelled applicator.

In May, the operator used the same John Deere tractor to plant the field using a conventional 6 row crop planter. By August 2019, the field was abandoned due to flooding in the field. Complete the field operations table below.
### Table: Machine Utilization

<table>
<thead>
<tr>
<th>No.</th>
<th>No.</th>
<th>CODE</th>
<th>CODE</th>
<th>CODE</th>
<th>ACRES</th>
<th>HOURS</th>
<th>CODE</th>
<th>CODE</th>
</tr>
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<tbody>
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<td>20.0</td>
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<td>21</td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Row 01**: Subsoiler

**Row 02**: Reg Digger

**Row 03**: Spr. Tooth Harrow

**Row 04**: Fertilizer

**Row 05**: Planter

**Row 06**: Abandoned

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**Columns Explanation**:

- **Column 2**: Sequence Number
- **Column 3**: Code for Operation
- **Column 4**: Code for Operator
- **Column 5**: Code for Size Unit
- **Column 6**: Acres Covered
- **Column 7**: Hours Spent
- **Column 8**: Power Source Code
- **Column 9**: Fuel Type Code

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**Utility**:

- **Operation**: What operation or equipment was used?
- **Operator**: Who was the machine operator?
- **Size Unit**: What was the size or swath of the machine used?
- ** acres Covered**: How many acres were covered?
- **TOTAL HOURS**: How many total hours were spent on land forming, hauling?
- **Power Source**: Which power source was used? (1=Diesel, 2=Gasoline, 3=LP Gas, 4=Other)
- **Fuel Type**: What was the fuel type of the tractor? (1=Diesel, 2=Gasoline, 3=LP Gas, 4=Other)