2020 Water Use Survey
Goal

- Gather accurate basic water use data
  - While ensuring farm confidentiality
  - Document Agriculture’s % of usage
  - Foster informed policy decisions
  - Ensure predictable and fair access to water supplies
Survey data used to help farmers

- Easy survey to sell because it helps them
- AGWRAP Water Resources Assistance Program
  - Link on your “Key Points” training sheet
- See Cover letter for more benefits of survey
Survey Process

- Mailed 12/21/2020
  - The DCC will probably call about 2300 records
- Phone Follow Up for Non-Responses
  - Jan 14–Jan 31<sup>st</sup>
  - Project code 997
Weather 2020 handout

- Very little irrigation required except in greenhouses
- Livestock ops use water daily
Important: pick 2020/12/01

Choose a Survey

SURVEY NAME: WATER USE
SURVEY DATE: 2020/12/01
SURVEY YEAR: 2020

Continue

Check AD User Settings
Blaise Familiarization

Did you use water (SURFACE or GROUND) for agricultural commodities such as crops, horticulture, aquaculture, and livestock in 2020? Exclude recycled water or lagoon irrigation.

[ENUM] All operations are expected to use some water for feeding livestock or mixing with chemicals or cleaning around the farm. A 'no' is only expected if the operation is not using surface or ground water for any purpose on their farm. Please leave an F9 note of explanation if a no is recorded for this question.

Response to this question was reported as '1' last Water Use Survey.

- Green important points – helps with probing
- Purple – reminder points
- Shows what they had in prior survey year for the first 3 questions.
  - If different, F9 explaining why.
During 2020, did you...
...grow CROPS, cut hay, grow NURSERY or FLORICULTURE crops? OR
...have any whole grains, oilseeds, or hay stored on this operation? OR
...own or raise any LIVESTOCK or POULTRY or AQUACULTURE (include raised for others)?

- 1. YES
- 3. NO

- Paper Q 1
- Screens for agriculture
  - Get respondent on board with our definition
  - If they say no, probe for
    - Nursery/Floriculture
    - Hogs/Poultry/AQUACULTURE
Did you use water **(SURFACE or GROUND)** for agricultural commodities such as crops, horticulture, aquaculture, and livestock in 2020? **Exclude recycled water or lagoon irrigation.**

[ENUM] All operations are expected to use some water for feeding livestock or mixing with chemicals or cleaning around the farm. A 'no' is only expected if the operation is not using surface or ground water for any purpose on their farm. Please leave an F9 note of explanation if a no is recorded for this question.

Response to this question was reported as '1' last Water Use Survey.

- **Paper Q 2**
- **No’s are RARE** –
  - all wash farm equipment or mix chemicals with water.
- **Focus of the question is type of water used**
  - **Surface** water comes from ponds/lakes or rivers/streams
  - **Ground** water comes from wells
- **Expect a yes on every operation UNLESS**
  - Exclusively used city or county or recycled water which was not recharged by wells or streams
  - Exclusively used Lagoon waste water (dirty hog water from neighbor on hay)
- **F9 note required if you put a no here.**
Did you use **10,000 gallons or more** of water **ON ANY ONE DAY** for agriculture?

Examples may include: more than 3,700 finish type hogs; or more than 9,000 nursery hogs; or more than 4 poultry houses; or irrigated at least 1 acre with a 1/2 inch of water.

- **Paper Q 3**
- **Focus points**
  - **10,000 gallons or more**
  - **On any one day**
  - **For agriculture**
- **If they don’t know, probe using examples**
- **If it’s a trout op**
  - ask about how much they “DIVERTED” instead of “used”
WATER UTILIZATION

The next set of questions will ask about the percentage of water used during 2020 for specific categories.

<table>
<thead>
<tr>
<th>Category</th>
<th>121 Poultry</th>
<th>122 Pigs</th>
<th>123 Aquaculture</th>
<th>124 Livestock</th>
<th>125 FieldCrops</th>
<th>126 FruitVeg</th>
<th>127 Nurseries</th>
<th>128 Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

- Paper Q 4
- Emphasize water usage **annually**
- Total to 100
- Questions delivered one at a time. see next slide
- Instrument gives examples. See next slide
Warnings pop up if target has a history of an item and you enter 0%

Probe to find out if they still have the item

If they do, verify if he used any water for that item

If a legit 0, put in an f9 note as to why no water was used for that category

“No need to irrigate with the amount of rainfall in 2020.”
What is the **DAILY** water withdrawal capacity in **GALLONS** from GROUND WATER SOURCES for your farm (the maximum amount your pumps could output in a 24 hour period)?

Include ground water pumped from wells and ponds supplied by wells.

- **Paper Q 5**
- Emphasize **DAILY** capacity
- **Maximum amount your pumps could output in 24 hours**
- If they don’t know capacity, get motor notes
  - make f9 notes
  - Make sure to note gallons/minute or gallons/hour
  - Ex: has 3 well pumps. one pumps 30 gal/min, one pumps 200 gal/hr, one pumps 50 gal/min
Ground vs Surface

- Ground—water pumped up out of ground
  - wells
- Surface—water came from something you can see on the surface
  - Rivers, lakes, streams, ponds
These questions are routed if Surface cap was greater than 0 or dk.
Running total at bottom should add to 100
Warning if it doesn’t add to 100
  • Correct appropriately
  • If one item was dk, okay to suppress warning
Reporting monthly water

Next we will be recording your MONTHLY water usage.

When reporting water used, please include surface and/or ground water used to feed livestock, cool livestock houses, clean barns, irrigate crops, prevent freeze damage, apply chemicals, or process crops on the farm.

- Make sure the respondent knows what kind of water to include in his monthly report.
- Do not skip reading statement to respondent
  - See next slide
Tables should include

- Ground or Surface water only—
  - No lagoon water
  - No city/county water

- Water used for
  - feeding livestock or irrigating crops
  - Cooling hog/poultry houses
  - Clean barns
  - Prevent freeze damage—blueberry and apples
  - Apply chemicals
  - Process crops on the farm
Choose how to report

Table 1 – Gallons
- For irrigators with meters
- For Livestock operators who know usage in gallons

Table 2 – Acres and inches of water applied
- Prefer one of the two above
  - Most accurate report of usage

Option 3: Some need both Table 1 & Table 2
- Just don’t duplicate water reported

Option 4: only if can’t report in other tables
Choice routes you to correct tables

- If they wind up needing to change which tables they want to report in, have to get back to this screen.
  - Only way to see additional tables
- Quickly looking at table 1 concept on paper
- Then look at it in Blaise
Get the county
Record whole month of water used
Most in one day. Max not average
Percent must add to 100 in these 2 columns
# of days that type water used for this month
In which county did you primarily use water to be reported in **GALLONS**?

Note that you will need to complete a table for each county in which you utilize more than 10,000 gallons of water in any one day.

**[ENUM]** If reporting in more than one county for this section, please collect the additional county data on paper.

<table>
<thead>
<tr>
<th>1. ALAMANCE</th>
<th>21. BUNCOMBE</th>
<th>41. CHOWAN</th>
<th>61. DUPLIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. ALEXANDER</td>
<td>23. BURKE</td>
<td>43. CLAY</td>
<td>63. DURHAM</td>
</tr>
<tr>
<td>5. ALLEGHANY</td>
<td>25. CABARRUS</td>
<td>45. CLEVELAND</td>
<td>65. EDGECOMBE</td>
</tr>
<tr>
<td>7. ANSON</td>
<td>27. CALDWELL</td>
<td>47. COLUMBUS</td>
<td>67. FORSYTH</td>
</tr>
<tr>
<td>9. ASHE</td>
<td>29. CAMDEN</td>
<td>49. CRAVEN</td>
<td>69. FRANKLIN</td>
</tr>
<tr>
<td>11. AVERY</td>
<td>31. CARTERET</td>
<td>51. CUMBERLAND</td>
<td>71. GASTON</td>
</tr>
<tr>
<td>13. BEAUFORT</td>
<td>33. CASWELL</td>
<td>53. CURRITUCK</td>
<td>73. GATES</td>
</tr>
<tr>
<td>15. BEORIE</td>
<td>35. CATAWBA</td>
<td>55. DARE</td>
<td>75. GRAHAM</td>
</tr>
<tr>
<td>17. BLAEN</td>
<td>37. CHATHAM</td>
<td>57. DAVIDSON</td>
<td>77. GRANVILLE</td>
</tr>
<tr>
<td>19. BRUNSWICK</td>
<td>39. CHEROKEE</td>
<td>59. DAVIE</td>
<td>79. GREENE</td>
</tr>
</tbody>
</table>

- Alphabetical order
- 100 counties in NC
  - 0 – 199
- Use right arrow key to see further counties
- Complete extra paper Q if more than one county
  - F9 note to notify me
  - “More than one county, paper Q completed”
  - Give paper Q to supv and they will mail to me
How many total GALLONS of water were withdrawn for THE WHOLE MONTH of **January 2020**?

What was the maximum number of GALLONS of water withdrawn IN ANY ONE DAY for **January 2020**?

What percent of the 25000 gallons of water was pumped from GROUND WATER sources for **January 2020**?

What percent of the 25000 gallons of water was pumped from SURFACE WATER sources for **January 2020**?

How many days during **January 2020** was Ground Water used?

How many days during **January 2020** was Surface Water used?

### Routes across by month

<table>
<thead>
<tr>
<th>Month</th>
<th>Total Month Withdrawal</th>
<th>Max Day Withdrawal</th>
<th>Average Acres</th>
<th>Total Inch</th>
<th>Max Inch</th>
<th>Ground</th>
<th>Surface</th>
<th>Ground Days</th>
<th>Surface Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>January_1</td>
<td>25000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>50</td>
<td>50</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>February_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March_1</td>
<td></td>
<td>60000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>April_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>July_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>August_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>November_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>December_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
How many total GALLONS of water were withdrawn for THE WHOLE MONTH of April 2020?

<table>
<thead>
<tr>
<th>TotalMonthWithdrawal</th>
<th>MaxDayWithdrawal</th>
<th>AverageAcres</th>
<th>TotalInch</th>
<th>MaxInch</th>
<th>Ground</th>
<th>Surface</th>
<th>GroundDays</th>
<th>SurfaceDays</th>
</tr>
</thead>
<tbody>
<tr>
<td>January_1</td>
<td>25000</td>
<td>60000</td>
<td></td>
<td></td>
<td>50</td>
<td>50</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>February_1</td>
<td>250000</td>
<td>60000</td>
<td></td>
<td></td>
<td>100</td>
<td>0</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>March_1</td>
<td>250000</td>
<td>60000</td>
<td></td>
<td></td>
<td>0</td>
<td>100</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>April_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June_1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Progresses down through each month
  - Asks all questions in row for month
  - Then ask next month etc
  - Month in question text changes
- January error—Max day should be less than whole month
- February—note questions for surface skipped since Ground is 100%
- March—note questions for # of ground days skipped since Ground%=0
<table>
<thead>
<tr>
<th>Month</th>
<th>Total Month Withdrawal</th>
<th>Max Day Withdrawal</th>
<th>Average Acres</th>
<th>Total Inch</th>
<th>Max Inch</th>
<th>Ground %</th>
<th>Surface %</th>
<th>Ground Days</th>
<th>Surface Days</th>
</tr>
</thead>
<tbody>
<tr>
<td>January_1</td>
<td>25000</td>
<td></td>
<td>60000</td>
<td></td>
<td></td>
<td>50</td>
<td>50</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>February_1</td>
<td>250000</td>
<td></td>
<td>60000</td>
<td></td>
<td></td>
<td>100</td>
<td>0</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>March_1</td>
<td>250000</td>
<td></td>
<td>60000</td>
<td></td>
<td></td>
<td>0</td>
<td>100</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>April</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>June</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Percent should add to 100
- # of ground days can be different than # of surface days
TIP: Keep notepad handy

- Record poid (can always see at bottom left of screen)
- Jot notes if it’s complicated.
- Table 2 – Enter dk’s to skip past complicated piece.
- Don’t hit enter at end of survey.
- Come back and fill in data.
- Or add F9 with notes, and I will calculate
- April – dk keeps rest of month’s questions from being asked and moves down to next month
- If partial info available, put a 9 in the column so remaining month’s questions will show.
  - May – didn’t know whole month but knew other info
  - June – didn’t know gallons but did know water source and #days used.
  - July – didn’t know any data for month
Table 1: Water Use by Gallons

(If your farm withdraws water from multiple counties, please complete Table 1 for each county.
An additional copy of Table 1 can be found on page 7.)

Does your farm withdraw water from more than one county (reporting usage in GALLONS)?

[ENUM] Reminder - if respondent answers YES, please collect the additional county data on paper in table 1.

| 1. YES |
| 3. NO |

Table 2: Water Use by Inches per Acre

(Irrigators may report water use in this table if it is more convenient.)

(If your farm withdraws water from multiple counties, please complete Table 2 for each county.
An additional copy of Table 2 can be found on page 8.)

Did your farm withdraw water from more than one county (reporting usage in INCHES PER ACRE)?

[ENUM] Reminder - if respondent answers YES, please collect the additional county data on paper in table 2.

| 1. YES |
| 3. NO |
- Quickly looking at table 2 concept on paper
- Then look at it in Blaise
Get the county

- Acres irrigated in ONE DAY
  - PROBE if they report more than 33 acres
- Total inches for month for 1 ACRE
- Most in one day on 1 ACRE. Max not average
- Percent must add to 100 in these 2 columns
- # of days that type water used for this month
In which county did you primarily use water to be reported in **INCHES PER ACRE**?

Note that you will need to complete a table for each county in which you utilize more than 10,000 gallons of water in any one day.

[ENUM] If reporting in more than one county for this section, please collect the additional county data on paper.

- Crop county can be different than gallon county
- Table works the same
  - Moves across asking all questions for one month
  - Moves down to next month
- A 0 in acres will move you down to next month
- F5(Dk) in avg acres skips all questions for the month
  - Only use f5 if they did irrigate that month and didn’t know info for the month
Whole numbers only in acres

If ½ acre enter a 1 and an f9 note telling me only a ½ acre

Round up for any other partial acres (no f9 needed)
  ◦ 3.5 round to 4
  ◦ 4.5 round to 5
If more than **33** acres, warning appears
  - That means more than 1 million gal used
  - Probe for acres **IRRIGATED in one day**....
    - Not acres of whole crop irrigated
  - Correct or F9 note explaining,
    - or supervisor will have you call back
    - Better to get it clarified immediately
Emphasize key points as you read
See purple notes
  ◦ If you just type 1, it will show up as 1.00
Tip for whole month
  ◦ Sometimes may need to put a dk in whole month, do max day, and # of days in month, and come back to whole month
Fraction help
  ◦ ¼ key as .25
  ◦ 1/3 key as .33
  ◦ ½ key as .5
  ◦ 2/3 key as .67
What percent of the gallons of water was pumped from GROUND WATER sources for **January 2020**?

What percent of the gallons of water was pumped from SURFACE WATER sources for **January 2020**?

How many days during **January 2020** was Ground Water used?

How many days during **January 2020** was Surface Water used?

<table>
<thead>
<tr>
<th>AverageAcres</th>
<th>TotalInch</th>
<th>MaxInch</th>
<th>Ground</th>
<th>Surface</th>
<th>GroundDays</th>
<th>SurfaceDays</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
<td></td>
<td>40</td>
<td>60</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>0</td>
<td>12.00</td>
<td>1.25</td>
<td>40</td>
<td>60</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

- Percents add to 100
- # ground and surface days can be different
Estimation guide questions

Since you indicated you wished to report water usage based on head of livestock/poultry or row spacing/flow rate, first we need to determine which commodities were involved.

As I read down the list, please indicate which ones apply.

[ENUM] Select all that apply. Either use your mouse to check all applicable items or type each number followed by the Spacebar or a hyphen (-) using the keypad.

- 1. Hogs
- 2. Broilers
- 3. Layers
- 4. Turkeys
- 5. Crops on which Drip Irrigation was used
- 6. None of the Above

- Can select multiple animal types
- Follow up questions will be routed to get more info on each animal type selected
- 5 is only to be used to report DRIP IRRIGATION
  - Table 2 handles normal irrigation well.
We now need to determine which type of Hog operation you had during 2020.

As I read down the list, please indicate which ones apply.

[ENUM] Select all that apply. Either use your mouse to check all applicable items or type each number followed by the Spacebar or a hyphen (−) using the keypad.

- 1. Nursery
- 2. Finish Only
- 3. Farrow to Wean
- 4. Farrow to Feeder
- 5. Farrow to Finish

Enter at most 5 values

- Can select multiple hog types
- Farmer will know what type(s) he has
  - Usually just one type
  - Rarely more than two types
- Check all appropriate boxes, and then hit enter
- If you hit enter to soon, you can arrow back up to see this screen
Follow up questions will be routed to get counts for each hog type selected

- Record **peak** number of each type
  - In **ALL** their houses at **ONE TIME**
  - **NOT** whole year
Broilers

- Routes through the questions
- Farmer usually knows answers
- Maximum number at **ANY ONE TIME** in **ALL** houses
- Refer to calendar handout for last question

What was the maximum number of **BROILERS** you had at any one time during 2020 in all of this operation's houses?

<table>
<thead>
<tr>
<th>aLabel2</th>
<th>BROILERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>720 BroilerMax</td>
<td>1400000</td>
</tr>
<tr>
<td>721 BroilerHseNum</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7</td>
</tr>
<tr>
<td>722 BroilerHseFull</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
</tr>
<tr>
<td>723 BroilerHseEmpty</td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
</tr>
<tr>
<td>724 BroilerDate</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12/20/2020</td>
</tr>
</tbody>
</table>

**BROILERS**

How many houses did you have?

**BROILERS**

On average, how many consecutive weeks are the houses FULL?

**BROILERS**

On average, how many consecutive weeks are the houses EMPTY?

**BROILERS**

What was the date that the majority of your houses were last empty?

**[ENUM]** Date format is mm/dd/yyyy
See Additional info sheet

7. Broilers
   a. Consecutive weeks full - expect 5 to 9
   b. Consecutive empty weeks - Expect 2 to 6
8. Layers
   a. Avg consecutive weeks full (21 to 52)
   b. Avg consecutive weeks empty (0 to 4)
9. Turkeys
   a. Avg consecutive weeks full (9 to 22)
   b. Avg consecutive weeks empty (2 to 7)

- Shows expected number weeks by animal type
  - Full and empty
- Consecutive = number of weeks in a row
Layers and Turkeys

- laid out similarly with similar questions
Quickly looking at drip irrigation concept on paper

Then look at it in Blaise
Drip irrigation

CROPS: Please report the following for drip irrigation used during 2020 if you do not know how many inches were applied:

- How many acres 750
- How long were the rows 751
- How many feet between rows 752
- How many inches (spacing) between emitters 753
- Flow rate per hour per emitter 754
- Number of hours per day that water was applied 755
- Complete the table below.

Table 3: Drip Irrigation

<table>
<thead>
<tr>
<th>County</th>
<th>% Ground Water</th>
<th>% Surface Water</th>
<th># of Days Ground Water Used</th>
<th># of Days Surface Water Used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>804</td>
<td>805</td>
<td>806</td>
<td>807</td>
</tr>
<tr>
<td>January</td>
<td>814</td>
<td>815</td>
<td>816</td>
<td>817</td>
</tr>
<tr>
<td>February</td>
<td>824</td>
<td>825</td>
<td>826</td>
<td>827</td>
</tr>
</tbody>
</table>
Drip Irrigation

- IC750: Acres irrigated in ONE day
- IC751: How long were the rows (feet) (100 to 500 feet)
- IC752: How many feet between rows (3 to 12 feet)
- IC753: Inches (spacing) between emitters) (12–36 inches)
- IC754: Flow rate/hr/emtr (.1 to .5 gal/hr) (note type crop)
- IC755: # of hours per day (3 hrs am and 2 hrs pm = 5 hrs)
Drip Irrigation

- Watch purple enum notes
- Row spacing in whole feet

CROPS
On how many ACRES was drip irrigation used during 2020?
CROPS
How LONG were the rows (in feet)?
ENUM Record feet to the tenths (example: 10.2 feet).
CROPS
How many FEET between rows?
CROPS
How many INCHES (spacing) between emitters?
CROPS
What was the FLOW RATE PER HOUR per emitter?
ENUM Record rate to the hundredths (example: 0.25 gal/emitter).
CROPS
On average, how many HOURS PER DAY was water applied?
ENUM Record hours to the hundredths (example: 1.25 hours).
Drip Irrigation continued

- Be sure to ask additional questions
- Collects
  - County
  - Months irrigated
    - Water source
    - # of days

In which county did you primarily use **DRIP IRRIGATION**?

Next I will be asking for a breakdown of water use by month.

What percent of the gallons of water was pumped from GROUND WATER sources for **January 2020**?

How many days during **January 2020** was Ground Water used?
End of survey

- Summary data from this survey will be available after July 1, 2021 on the internet. This completes the survey! Thank you again.

- DO NOT PUT A 3 AND ENTER
  - Until you’ve reviewed to see if you need to key any additional table data or notes.

Thank you, IMA FARMER 64, for your cooperation. Summary data from this survey will be available after July 1, 2021 on the internet at http://ncagr.gov/stats/environmental/index.htm. The results can be accessed by clicking on the "2020 WATER USE" link under the category "WATER USE STUDIES". If you do not have Internet access, please call 800-437-8451.

This completes the survey! Thank you again.

[ENUM] ENTER any NOTES or COMMENTS before entering a 3 below to END INTERVIEW.
Multiple counties (affects about 40 ops in state)

- Complete paper Q for the additional counties
- Be sure to write Poid on the extra Q.
- Give to your supervisor
Op who irrigates AND has livestock BUT doesn’t know how much water used for them.

- Select that you want to report using both gallons AND inches.
- Enter F5 (dk)s in table 1
- Add an F9 note with all appropriate livestock info from estimation guide
- Complete table 2
Individual practice exercises

- Extra Information sheet with practice exercises to try on your own
- Practices will help you gain confidence