Winter Wheat Objective Yield Training Workshop

April 17-18, 2019
Dodge City, Kansas
Welcome and Introductions

• Name
• Town and County
• Years as a NASDA enumerator
  • Experience with WOY?
Workshop Overview

Forms: A, B & E
Wheat Field Selection
Unit Location and Layout
Wheat Clippings, Final Pre-Harvest & Gleanings
New CAPI
Yellow and Pink ID Tags
UPS Packaging & Procedures
Monthly Due Dates
Quiz Review – Survey Monkey
Assignments & Supplies
Goals

• Refresher training
  • For experienced enumerators
• Basic tools
  • new enumerators
• How to enter WOY data in CAPI
  • Forms B
• Share knowledge and interact with other enumerators and
• Meet NPR office staff
Workshop guidelines

• Cell Phones
  • Please Silence
• Emergency calls
  • Please take but leave room
• Group interaction is encouraged during exercises
  • Wheat Field Practice Exercise
• Burning questions?
  • Try to hold and ask presenter at end of presentation
• Question not answered satisfactorily?
  • Ask again
NASDA Administration

• Charge all time to Project Code 101
Winter Wheat Objective Yield

Overview
NASS Yield Estimates

In-Season Forecasts (for wheat May 1 - August 1)
Published near the 10th - Crop Production Report

- Ag. Yield
  - subjective
  - inexpensive

- Objective Yield (OY)
  - actual counts of stalks and grain-objective
  - expensive

Year End
- Final OY
- County Agricultural Production – small grains (CAPS)
- September Agricultural Production Survey (APS)
WOY survey - go out to wheat fields and do actual counts and measurements the last week of the month.

Sample fields are selected from farmers who reported winter wheat acreage for harvest during the March Agricultural Production Survey.
NASS Yield Estimates

Each sample field will have two units laid out. This is where the counts and measurements will be done.

2 parts to WOY fieldwork

- Forms
  - Paperwork
  - CAPI
- Wheat clippings, final harvest, and gleanings
  - Bagged and shipped

United States Department of Agriculture
National Agricultural Statistics Service
Winter Wheat Conditions

As of April 1st, Kansas winter wheat conditions rated:

- 2% percent very poor
- 7% poor
- 36% fair
- 46% good
- 9% excellent

Winter wheat acres seeded in the Fall of 2018 were estimated at 7.20 million.
Wheat Objective Yield Samples

Form A - You may start interviewing farmers for all your samples as soon as the school is over.

Do not complete Form B’s and clippings until April 24.

We only do form B’s for even numbered samples for May 1st.

All samples for June 1st
• Sample Sizes
• Field Enumerator Reference Sheet
• Guide to survey procedures
• Additional details near the end of the day
Northern Plains Contacts

Kevin McMillan – Program Manager
(402) 470-8769
Kevin.McMillan@usda.gov

Christina Dowd – WOY Statistician
(402) 470-8792
Christina.Dowd@usda.gov

Office Phone: (800) 582-6443
Form A 1

Winter Wheat Objective Yield Survey
Initial Interview
2019
Purpose

- Update the acreage of wheat expected to be harvested for grain since the March APS survey
  - Get permission from farmer to conduct field work
  - Select random field that we will collect the wheat objective yield data

You may conduct this interview right after school for all A forms.
Verify Name and Address

- If there are any changes correct both Form A1 and Kit Envelope
Reminders:
- Use black LEAD pencil
- Must be legible
- Write notes in margins
- Put all entries in the boxes provided

Earlier this season you gave a representative from our office information about the Winter Wheat acreage on your farming operation. We are now collecting information to help determine Winter Wheat production in (Your State) and the United States.

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.

Date: __________

Starting Time (Military Time) 1711

Record the start and finish in military time
FIELD SELECTION

- Based on what was intended to harvest for grain from March Agricultural Production Survey
- **DO NOT CHANGE** the acreage in IC101!
  - Make notes if the recorded acreage is incorrect
Acreage Differences

- **Include** acreage that was counted in March that may have changed hands since.
  - If the field falls in the area that is no longer in the sampled operation, contact the new operator about plots

- **Exclude** newly acquired land
Preparing for Table A

1a Complete a grid of the Operators Fields
   • Start with any field (write acres)
   • Number fields (North to South – West to East)
Table A

- List fields numerically from the grid map
- Record all acreage entries to nearest tenth acre (example: 160.0)
- Columns 3 and 4 - make note of bare spots, water ways, etc.

<table>
<thead>
<tr>
<th>FIELD NUMBER</th>
<th>TOTAL ACRES IN FIELD</th>
<th>USE</th>
<th>ACRES</th>
<th>ACRES OF WINTER WHEAT to be HARVESTED for GRAIN or SEED</th>
<th>Cum. = Cumulative Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>160.0</td>
<td></td>
<td></td>
<td>160.0</td>
<td>160.0</td>
</tr>
<tr>
<td>2</td>
<td>330.0</td>
<td>Bare Spot/flood out</td>
<td>2.0</td>
<td>332.0</td>
<td>332.0</td>
</tr>
<tr>
<td>4</td>
<td>90.0</td>
<td></td>
<td></td>
<td>90.0</td>
<td>422.0</td>
</tr>
<tr>
<td>6</td>
<td>160.0</td>
<td></td>
<td></td>
<td>160.0</td>
<td>582.0</td>
</tr>
</tbody>
</table>

Top box is specific field acreage
Lower box is cumulative total acres
Total Acres of Winter Wheat

- In box 102 put the last **cumulative** entry

- Verify acreage with operator – DON’T COPY IC101
Find the field in Table A in which the cumulative harvested acres equal or exceeds the selected acres from table B.

Circle the selected field number in Table A.

Selected acres are labeled.

Note if large difference from item 1 e.g. sprayed most wheat and planted corn.
Form A – Example

Which field should be selected?

**TABLE A**

<table>
<thead>
<tr>
<th>FIELD NUMBER</th>
<th>TOTAL ACRES IN FIELD</th>
<th>USE</th>
<th>ACRES</th>
<th>ACRES of WINTER WHEAT to be HARVESTED for GRAIN or SEED</th>
<th>Cum. – Cumulative Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>266.0</td>
<td></td>
<td></td>
<td></td>
<td>865.0</td>
</tr>
<tr>
<td>2</td>
<td>75.0</td>
<td></td>
<td></td>
<td></td>
<td>348.0</td>
</tr>
<tr>
<td>3</td>
<td>80.0</td>
<td></td>
<td></td>
<td></td>
<td>420.0</td>
</tr>
<tr>
<td>4</td>
<td>102.0</td>
<td></td>
<td></td>
<td></td>
<td>522.0</td>
</tr>
<tr>
<td>5</td>
<td>220.0</td>
<td></td>
<td></td>
<td></td>
<td>742.0</td>
</tr>
<tr>
<td>6</td>
<td>20.0</td>
<td></td>
<td></td>
<td></td>
<td>762.0</td>
</tr>
<tr>
<td>7</td>
<td>80.0</td>
<td></td>
<td></td>
<td></td>
<td>842.0</td>
</tr>
<tr>
<td>8</td>
<td>100.0</td>
<td></td>
<td></td>
<td></td>
<td>942.0</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TABLE B**

<table>
<thead>
<tr>
<th>Sample Number(s)</th>
<th>Selected Acre(s)</th>
<th>Selected Field Number(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>999</td>
<td>458.2</td>
<td>?</td>
</tr>
</tbody>
</table>

**USDA**

**AGRICULTURE COUNTS**

26
**Form A – Example**

Which field should be selected?

<table>
<thead>
<tr>
<th>FIELD NUMBER</th>
<th>TOTAL ACRES IN FIELD</th>
<th>USE</th>
<th>ACRES</th>
<th>ACRES of WINTER WHEAT to be HARVESTED for GRAIN or SEED (Cum.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>266.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>75.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>80.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>102.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>220.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>20.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>80.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>100.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TABLE B**

<table>
<thead>
<tr>
<th>Sample Number(s)</th>
<th>Selected Acre(s)</th>
<th>Selected Field Number(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>999</td>
<td>458.2</td>
<td>4</td>
</tr>
</tbody>
</table>

**ANSWER: Field 4**
Cumulative acres stopped once the selected field was reached. Selected field was entered in box 102.

If the operator is in a hurry, after reaching the selected field you can sum the remaining fields in the next row of Table A, but verify operator’s total acres of winter wheat (box 102). MAKE NOTES!
Sample Field Characteristics

- **Item 3 – Sample Field Information**
  
  3. Copy acres of winter wheat to be harvested for grain or seed in Sample Field Number ______________________ From Table A, column 5. ACRES

- **Item 4 – Wheat Class**

  4. What class of wheat was seeded in this Sample Field Number ______________________
     
     - 1 □ HARD RED Winter
     - 2 □ SOFT RED Winter
     - 3 □ WHITE Winter

- **Item 6 – Irrigated**

  6. Has this field been (or will it be) irrigated?
     
     - 1 □ YES
     - 3 □ NO
Plotting & Pesticides

- Item 7 - Explain plotting processes
  7. With your permission I will go out to the field and mark off two small plots to be used in making plant and fruit counts. I will return to the plots each month until harvest to make counts, and clip a few heads to determine their size and weight. Would that be all right?

  - [ ] YES - Continue
  - [ ] No - Conclude interview and return all forms

- Item 8 - Pesticides
  - Organophosphorus applied?
  - See Interviewers Manual for re-entry schedule
  8. Have you or will you apply pesticides with organophosphorus content to the sample field?

  - [ ] YES
  - [ ] NO
  - [ ] DON'T KNOW

  If YES, enter latest application date ____________________ and name of pesticide ____________________

  If this is a gleaning sample, tell the operator, "After harvest, I will also lay out two small plots to determine harvest loss."
Item 9 – Respondent’s Name

9. Respondent Name:

IMPORTANT: Review for completeness. Record ending time and sign name. Record expected harvest date, pesticide intentions (Item 8), and operator’s telephone number on your kit envelope.

Item 10 – Time and Enumerator Information

- Ending Time (Military Time)
- Enumerator Number
- Supervisor Number
- Evaluation
Friendly Reminders

- Too many fields to list - Can merge fields but need to document that.
- Write notes on the questionnaire. The office doesn’t get your kit envelope or field grid map initially.
- If selected acre(s) is larger than accumulated acres--last field in table A will be the selected field
  - This should only occur when there is a large change in current harvested acres versus March reported harvested acres (NOTES!!!).
- If only one field in Table A then it’s the selected field
- A field may have more than one sample
- For multi-sampled operations: If two or more “selected acres” entries exceed the accumulated acres on the farm, call the office or reference IM pg 309.
- Double-check your math before submitting the Form A to avoid selecting the wrong field.
Questions?
Form B – Unit Location
WINTER WHEAT YIELD COUNTS 2019
## Wheat Objective Yield Supplies

### Sample Bundle
- 5 small white tyvek
- 1 jumbo white Tyvek
- 8 orange rubber bands
- 7- #12 paper bags
- 5- #8 paper bags
- 5- #5 paper bags
- 18 red stakes
- 24 blue stakes

### Gleaning Bundle
- 2 small white Tyvek
- 1 orange rubber band
- 1- #12 paper bag
- 10 red stakes

### Satchel Contents
- 50 ft Tape Measure
- Anchor Pin
- Yardstick
- Clippers
- Clipboard
- Pencil
- Black Marker
- Wheat Frame
- Hand Counter

Other Supplies: Bamboo Poles, Flagging Ribbon, UPS Labels (white – Lincoln, blue – St. Louis), Envelopes, pencils, clipboards, etc.

If you are running low on supplies, contact your Supervisor.
Wheat Supply Bundles - continued

• All bundles prepared by National Lab in St. Louis, MO

• Why Supply Bundles?
  • Eliminates time required to assemble in RFO
  • Consistent supplies across samples
  • Easily transferrable between enumerators

• Do NOT open bundles if you don’t need them, we can use them next year
Determining Paces

- Find the appropriate field size on the kit label
- Use Form A box 103 acres
- Circle the rows and paces on the Kit Envelope label
- Copy to Form B

<table>
<thead>
<tr>
<th>Wi Wheat</th>
<th>&lt; than 10 Ac</th>
<th>10-19 acres</th>
<th>20-39 acres</th>
<th>40-59.9 acres</th>
<th>60+ acres</th>
<th>Strip Wheat</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Unit 1</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rows=</td>
<td>77</td>
<td>139</td>
<td>243</td>
<td>327</td>
<td>317</td>
<td>154</td>
</tr>
<tr>
<td>Paces=</td>
<td>46</td>
<td>83</td>
<td>79</td>
<td>70</td>
<td>200</td>
<td>49</td>
</tr>
<tr>
<td><strong>Unit 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rows=</td>
<td>107</td>
<td>169</td>
<td>273</td>
<td>357</td>
<td>347</td>
<td>184</td>
</tr>
<tr>
<td>Paces=</td>
<td>76</td>
<td>113</td>
<td>109</td>
<td>100</td>
<td>230</td>
<td>79</td>
</tr>
</tbody>
</table>
Unit Location

Unit location steps start on page 401 in the Interviewer’s Manual

Keep in Mind:

✓ Starting corner will be the point which allows the units to fall anywhere in the field boundaries.
  • Mark the starting corner. (Make note of it on your Kit Envelope)

✓ Step off your paces outside the plowed edge of the field. Start one and one-half feet outside the plowed edge of the field along the longer side of the field.

✓ Turn at a right angle and step off paces into the field.

✓ Make sure to deduct any area that was deducted in Form A
After you have completed your paces:

• Lay out a five foot buffer zone to the **RIGHT** of the yardstick. (Use 50ft tape, anchor pin, wooden stakes.)

• Placement of the First Red stakes in Unit 1.
Wheat Frame

• Be sure to have your Supervisor check your wheat frame
  • Correct length (21.6 in)
  • Frame and tines are not bent
  • Halfway point marked (10.8 in)
Laying Out Unit 1 – Count Area

- Reposition yardstick to touch stake and cross rows to the left
- Use tine to put in second row 1 red stake
- Insert red stake in row 2 touching the yardstick
- Use tine to put in second row 2 red stake
- Same for row three
Count vs Clip Area

- **Red stakes** mark the 1\textsuperscript{st}, 2\textsuperscript{nd}, and 3\textsuperscript{rd} rows for one wheat frames length from the Buffer Zone.
- Note – the stakes go inside the wheat frame tines
- The Red stakes enclose the COUNT AREA.

<table>
<thead>
<tr>
<th></th>
<th>Count Area</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Row 3</strong></td>
<td>Harvest</td>
</tr>
<tr>
<td><strong>Row 2</strong></td>
<td>Harvest</td>
</tr>
<tr>
<td><strong>Row 1</strong></td>
<td>Harvest</td>
</tr>
</tbody>
</table>

5 Ft. Buffer Zone
Count vs Clip Area

- **Blue stakes** follow a tines length from each of the red stakes
- Second set of **Blue stakes** follow a tines length
- Clip Areas are one half of the total tines length
- Use **blue stakes** to denote the half-way points when laying out clip areas

![Diagram showing Count Area, Clip Area A, and Clip Area B with Harvest points on Row 1, Row 2, and Row 3, and a 5 Ft. Buffer Zone]

United States Department of Agriculture
National Agricultural Statistics Service
Labeling Units

• Remember to label your wooden stakes
• S-1 (Sample 1)
• U-1,R-1 (Unit 1, Row 1)
• U-2,R-1 (Unit 2, Row 1)
Special Situations

- **Bounce Back (IM – 411)**
  - You reach the end of the field and have not taken the required paces, turn around and walk back.

- **Spiral Seeded Field (IM – 413)**
  - Starting point – first point reached when arriving to field and walk clockwise along the edge of the field.

- **Part of Unit Falls Outside of Field (IM – 414)**
  - Decrease the pace count

- **Odd-Shaped Fields – Starting Corners (IM – 415)**
  - Sample unit needs to have an equal change of falling anywhere in the field.

- **Center Pivot Fields (IM – 416)**
  - Entire field including corners
  - Circle only
    - Utilize access roads used for irrigation
Questions?
Form B

WINTER WHEAT YIELD COUNTS

2019
Form B – Matching Dates

Both dates need to match

<table>
<thead>
<tr>
<th>YEAR, CROP, FORM, MMDD</th>
<th>R/S/D</th>
<th>POID</th>
<th>SAMPLE</th>
<th>STATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>913 0 4 2 9</td>
<td>1201</td>
<td>301606030</td>
<td>0048</td>
<td>KS</td>
</tr>
</tbody>
</table>

Forecast Month May 1

Date: April 29, 2019
Questionnaire Breakdown

1. **Pesticides**

   Has operator applied pesticides with organophosphorous content to the sample field?

   - □ YES
   - □ NO

   If YES, enter latest application date ____________ and name of pesticide ____________________

2. **Paces along edge of field**

3. **Paces into field**

4. **Unit location Code**

   - 1. First visit to lay out unit
   - 2. Unit relocated this month
   - 3. Sample unit laid out previously

   Enter Code 305

   Go to item 6 when coded 3; otherwise go to item 5.
5. **Row space measurements**

5. **ROW SPACE MEASUREMENTS**

   a. Measure distance from stalks in Row 1 to stalks in Row 5

   Feet & Tenths

<table>
<thead>
<tr>
<th>UNIT 1</th>
<th>UNIT 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td>303</td>
</tr>
</tbody>
</table>
6. Stage of maturity

<table>
<thead>
<tr>
<th>MATURITY STAGE</th>
<th>PRE-FLAG</th>
<th>FLAG OR EARLY BOOT</th>
<th>LATE BOOT OR FLOWER</th>
<th>MILK</th>
<th>SOFT DOUGH</th>
<th>HARD DOUGH</th>
<th>RIPE</th>
<th>BLANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1 Count Area</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>UNIT 2 Count Area</td>
<td>302</td>
<td>302</td>
<td>302</td>
<td>302</td>
<td>302</td>
<td>302</td>
<td>302</td>
<td>302</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>If Unit One Maturity is:</td>
<td>1 or 2, start counts with item 7.</td>
<td>3, 4, or 5, start counts with item 8.</td>
<td>6 or 7, start counts with item 8.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

When in doubt, always go lower!
Questionnaire Breakdown

7. Number of stalks (stems) in row

8. Number of heads in LATE BOOT

9. a) Number of EMERGED HEADS on all stalks
   b) Number of DETACHED HEADS in unit

(Complete 9b only on Final PRE-HARVEST VISIT)
10. Steps based on maturity code

10. If the MATURITY CODE circled in item 6 for Unit One (or Unit Two when Unit One is blank) is:
   a. Code 1 or 2: SKIP items 11 and 12. Enter enumerator and supervisor numbers and sign name.
   b. Code 3, 4 or 5: Go to item 11.
   c. Code 6 or 7: Go to item 12.
   d. Code 8 (Both Units): Record dashes for appropriate items plus note on Form B and kit envelope that both units are in blank area. Enter enumerator and supervisor numbers and sign name.

   **CLIPPING ORDER**
   - Both Units (item 11)
   - First Clipping -- Row 1 in Clip Area B
   - Second Clipping -- Row 3 in Clip Area B
   - Third Clipping -- Row 2 in Clip Area A

   **Diagram:**
   - Lay out Units 1 and 2 as shown below:
   - Row 3
   - Row 2
   - Row 1
   - Count Area, Clip Area A, Clip Area B
11. **Clip Areas** (maturity code = 3, 4, or 5)

**WITHIN CLIP AREAS:** Make clippings in the designated ROW within Clip Areas OF EACH unit following steps below.

**If Unit 2 Maturity Code is 2, enter enumerator and supervisor numbers below and sign name. Discard Unit 1 clipping and DO NOT send any clippings to the Lab.**

**Step 1:** Mark half-way point in specified row in clip area.

**Step 2:** **MOW (cut stalk within 2 inches of base)** all wheat stalks in specified row until 5 Emerged Heads (If that many) are obtained OR until one-half the row is completely mowed. Begin mowing at the end of the row farthest from count area and mow in direction of count area. Examine each stalk for emerged head as it is mowed; if present, clip stalk 1/2 inch below the head. Place the 5 (or less) emerged heads in a small bag. Record count on YELLOW I.D. tag. Also, when mowing, clip and count any heads in **late boot** at base of top foliage leaf and place in a medium size bag.

**Step 3:** **MOW** remaining stalks up to the half-way mark. Examine each stalk and determine which ones are **emerged heads** and **late boot heads**. **CLIP** the stalk 1/2 inch below the emerged head or at base of top foliage leaf for late boot heads. Place the remaining **emerged heads** in a large bag and the **late boot heads** in a medium bag.

**Step 4:** Record the count of the remaining emerged heads and the late boot heads on the YELLOW I.D. tag.

Repeat steps 1 through 4 for Unit 2 using same bags for emerged heads and late boot heads as used in Unit 1. Prepare one I.D. tag. Label all bags with sample number. Seal and place the small and medium size bags in the large bag. Seal large bag. Verify and date YELLOW I.D. tag and attach to outside of large bag.

Check here □ after placing the large bag in a Tyvek envelope addressed to NATIONAL LABORATORY. ENTER enumerator and supervisor numbers and sign name.
Preferred Packaging – Clip Area

Clip area – Maturity Stage 3, 4 and 5, **one set of bags for both units**
Yellow ID Tag vs Form B

Data on lower portion of Yellow ID tag comes from the Clip Area on the back of Form B.
Forms & ID Tags Relationship
Questionnaire Breakdown

12. Count Area (maturity code = 6 or 7)

12. **WITHIN COUNT AREAS** -- Clip and Count all heads in count area of BOTH units following steps below.

   * Use a separate large bag for each unit.
   * Step 1 -- Clip all heads in Late Boot at base of top foliage leaf in Row 1 - Compare with item 8 count.
   * Step 2 -- Clip all Emerged heads 1/2 inch below head in Row 1 - Compare with item 9a count and place emerged heads in same bag with late boot heads.
   * Step 3 -- Repeat steps 1 and 2 for Rows 2 and 3. -- Check counts.
   * Step 4 -- Pick up all Detached Heads on ground in unit counted in item 9b. Place in bag with clipped heads.

Copy recorded heads from items 8 and 9 of Form B onto PINK I.D. Tags.
Date & attach one I.D. Tag to each large bag.

Check here □ after placing bags in a Tyvek envelope addressed to NATIONAL LABORATORY.
Preferred Packaging Final Pre-Harvest

Count Area – Maturity Stage 6 & 7, (Hard Dough & Ripe) separate bag for each unit
Pink ID tag vs Form B
Forms & ID Tags Relationship
13. Supervisor assistance

• Add comments about unusual situations
  • For example, frost damage, special drill spacing, unit located in poor wheat, unit located in excellent wheat, drill skips, etc.

• UPS Tracking Number needs to be put into CAPI Form B too
UPS Preferred Packaging to Lab

- **NO** Staples
- **NO** Duct Tape
- **NO** Wrapping of any sort
- One or two rubber bands is sufficient
- One strip of packing tape is sufficient over seal if needed
UPS inbound Transit Days to NOD

Source Date: 02/01/2017
Friendly Reminders

- Unit location code 3 is used when the sample unit was laid out and counted previously
- When in doubt about maturity stage, always go lower
- A wheat head is either late boot (#8) or emerged (#9), it cannot be counted as both
- Clip stalks ½ inch below the head
- Use same bags for both units and YELLOW tags when clipping the clip areas
- Use separate bags for each unit and PINK tags when clipping count area for final pre-harvest
- Sample ID tags should be placed on the outside of paper bags with one rubber band
- Use BLUE UPS labels to ship to the National Lab in St. Louis, Missouri
- Use WHITE labels to ship paper forms to Lincoln, Nebraska
- Record counts and tracking number on backup recording sheet
Questions?
Click here to access

or type Kahoot.it into your web browser
CAPI Form B

Winter Wheat Yield Counts on the iPad
CAPI: Form B

- Form B available for data entry on New CAPI
  - Form A is populated for enumerator assignments only
    - Don’t open Form A’s in CAPI, if you do a standard message stating the questionnaire is unavailable will appear.
  - **Never take iPad into fields**
    - Complete fieldwork on paper, then key on iPad and submit to office same day data is entered
    - Enter data into CAPI while at field to review work and save a trip in case of data errors **(OR)**
    - Enter data into CAPI when safely at home, organized and cooler
CAPI: Form B

• CAPI will be available from the 1st day of data collection through the second day of the month (unless 2nd day of month lands on Sat/Sun)

• Enumerators should promptly return completed forms to RFO for processing outside of the official survey period.
  • Example would be Final Pre-Harvest sample outside the CAPI period time
CAPI: WOY Assignment Listing

Survey Date (will change each month)

<table>
<thead>
<tr>
<th>SEQ. NUM</th>
<th>DCMS</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>11</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>12</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>13</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>14</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>15</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>16</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>30</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
<tr>
<td>31</td>
<td>420</td>
<td>DOE PARMS INC JOHN DOE</td>
</tr>
</tbody>
</table>

* = Multi-Sample Operation
SEQ. NUM = Sample #
CAPI: Form B

- Format designed to replicate the paper version of the OY Form B

- There will be differences between the paper and New CAPI forms due to new Responsive Web design and space limitations of the iPad display

- Sections vs Pages are now the standard design
CAPI: Form B Edit

• WOY CAPI uses the new Survey Designer to apply edits to prevent submission without key required items being completed.

  • Missing field work date / status code submission block
  • Enumerator / Supervisor evaluation codes are programmed
  • Conditional edits built into the form to match SPS edit parameters
    • Unit location, row space measurement, maturity code, etc.
CAPI: Form B Edit Examples

- Fieldwork Date
• Status Code
WOY Status Codes

1. Complete
2. Farmer Harvested for Grain **Before** Units Laid Out
3. Farmer Harvested for Grain **After** Units Laid Out
4. Enumerator Harvested or Both Units Are Blank
5. Field Partially Destroyed and Both Units Destroyed
6. Lost Sample – Field Not Harvested for Grain
7. Refusal
8. Inaccessible
13. No Winter Wheat for Harvest as Grain on Entire Farm
CAPI: Form B Edit Examples

• Row & Pace Count Calculation

UNIT LOCATION

Unit Location

Number of paces along edge of field

| UNIT 1 | 100 | + 30 | UNIT 2 | 130 |

Number of paces into field

| UNIT 1 | 50 | + 30 | UNIT 2 | 80 |
CAPI: Form B Edit Examples

- Unit Location/Row Space Measurement
CAPI: Form B Edit Examples

• Maturity Stage (1-2)/Counts within Units
CAPI: Form B Edit Examples

- Maturity Stage (3-7)/ Counts within Units
CAPI: Form B Edit Examples

- Item Code Level Comments
CAPI: Form B Edit Examples

• Enumerator Info

![Diagram of Enumerator section](image)
UPS Tracking Number

1Z0721AW8796147549
(For samples sent to National Laboratory)
CAPI Response Coding

- **Response:** Completed
- **Respondent:** Other
- **Mode:** Face-To-Face on iPad

**Enumerator ID is autocoded**
Practice Exercises
Practice Exercises

1. Locate exercise booklet in school folder titled “WOY Exercises”
2. Follow the instructions and fill out the forms
3. Enter data into New CAPI for Form B
   - Log into CAPI Training
   - View assignment listing
   - Pick any sample from Form B assignment listing to enter data
Exercise 1:

- 1. 40 acres
- 2. 120 acres
- 3. 60 acres
- 4. 50 acres
Form A-1 Exercise – ANSWERS

Exercise 1:

<table>
<thead>
<tr>
<th>FIELD NUMBER</th>
<th>TOTAL ACRES IN FIELD</th>
<th>USE</th>
<th>ACRES</th>
<th>ACRES of WINTER WHEAT to be HARVESTED for GRAIN or SEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>40.0</td>
<td>120.0</td>
<td>6.0</td>
<td>5.0</td>
</tr>
<tr>
<td>2</td>
<td>120.0</td>
<td>120.0</td>
<td>6.0</td>
<td>5.0</td>
</tr>
<tr>
<td>3</td>
<td>60.0</td>
<td>60.0</td>
<td>6.0</td>
<td>5.0</td>
</tr>
<tr>
<td>4</td>
<td>50.0</td>
<td>50.0</td>
<td>6.0</td>
<td>5.0</td>
</tr>
</tbody>
</table>

1. The total acres of winter wheat (last cumulative entry) for harvest on the land you operate is: 270.0

2. The total acres of winter wheat (last cumulative entry) for harvest on the land you operate is:

- a. Is this right? Yes - (Continue) No - Review all fields, correct Table A and item 2
- i. If item 2 has:
  - A ZERO entry - Return all forms
  - An ACREAGE entry - Make selection of sample field(s)

**TABLE B**

<table>
<thead>
<tr>
<th>Sample Number(s)</th>
<th>Selected Acre(s)</th>
<th>Selected Field Number(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XX</td>
<td>175.0</td>
<td>3</td>
</tr>
</tbody>
</table>

a. Select first field in Table A in which the cumulative harvested acres equals or exceeds the selected acre for sample as shown in Table B.

b. Enter selected field number in Table B.

c. Circle selected sample field number in Table A. Enter field acreage (Column 5) in item 3.
Form B/New CAPI Training Exercises – ANSWERS

Exercise 2:

**USDA**
**NATIONAL AGRICULTURAL STATISTICS SERVICE**

**FORM B**
**WINTER WHEAT YIELD COUNTS**
2019

**YEAR, CROP, FORM, MMDD, R/S/D, POID, SAMPLE, STATE**
913 0 4 2 8 XXXX XXXXXXXXX XX XX

**Forecast Month May 1**

1. Has operator applied pesticides with organophosphorus content to the sample field?
   - [ ] Yes
   - [x] No
   
   **If YES, enter latest application date __________ and name of pesticide**

2. Number of paces along edge of field
3. Number of paces into field

**UNIT LOCATION CODE**
- 1 First visit to lay out unit
- 2 Unit relocated this month
- 3 Sample unit laid out previously

**UNIT LOCATION**

- **UNIT 1**
  - 301 1
  - 305 1
  - **102**

- **UNIT 2**
  - 307 1
  - **132**

**ROW SPACE MEASUREMENTS**

- a. Measure distance from stalks in Row 1 to stalks in Row 5

**Feet & Tenths**
- **UNIT 1**
  - 301 3.4

- **UNIT 2**
  - 303 3.5

Date: April 28, 2019
Exercise 2:

Since maturity code=2, no wheat needs to be clipped at this time.
Exercise 3:

Forecast Month June 1

Date: May 26, 2019
Exercise 3:

6. STAGE OF MATURITY: (Circle one code for each unit)

<table>
<thead>
<tr>
<th>MATURITY STAGE</th>
<th>PRE-FLAG</th>
<th>FLAG OR EARLY BOOT</th>
<th>LATE BOOT OR FLOWER</th>
<th>MILK</th>
<th>SOFT DOUGH</th>
<th>HARD DOUGH</th>
<th>RIPE</th>
<th>BLANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIT 1 Count Area</td>
<td>300 1</td>
<td>300 2</td>
<td>300 3</td>
<td>300 5</td>
<td>300 6</td>
<td>300 7</td>
<td>300 8</td>
<td></td>
</tr>
<tr>
<td>UNIT 2 Count Area</td>
<td>302 1</td>
<td>302 2</td>
<td>302 3</td>
<td>302 5</td>
<td>302 6</td>
<td>302 7</td>
<td>302 8</td>
<td></td>
</tr>
</tbody>
</table>

If Unit One Maturity is 1 or 2, start counts with item 7.

COUNTS WITHIN UNITS

7. Number of stalks (stems) in row...

8. Number of heads in LATE BOOT...

9. a. Number of emerged heads on all stalks
   b. Number of detached heads in unit...

(Complete 9b only on Final PRE-HARVEST VISIT)

UNIT 1 | UNIT 2
---|---
Row 1 | Row 2 | Row 3 | Row 1 | Row 2 | Row 3
311 | 312 | 313 | 314 | 315 | 316
351 | 352 | 353 | 354 | 355 | 356

Exercise 3 Answers:
- 70
- 71
- 55
- 43
- 36
- 38

8. Substitute Unit Two when both 8, Go to Item 10.
Exercise 3:

Joe made his first clipping in Section Z.

Joe placed the remaining emerged heads in the large bag.
Questions?
FORM E: Winter Wheat Yield Survey
Post-Harvesting Gleanings
Post Harvest Gleaning Samples

Purpose is to collect harvest loss information

• Harvest loss from weather, wind, birds, combine, etc.

• Done within three days of harvest, preferably the same day of harvest

• Collected for samples that their sample numbers are divisible by 4 (such 4, 8, 12, 16, 20, 24, 28, 32, ......)
Form E: Post Harvest Gleaning Blue Form

Project Code 101  QID 120031E-W

FORM E  WINTER WHEAT YIELD SURVEY
POST-HARVEST GLEANINGS
2019

YEAR. CROP, FORM, MMDD  R/S/D  POID  SAMPLE  STATE
917 0 7 0 6 1201 300660430 0064  KS

UNIT 1  UNIT 2
ROWS PACES

20300660430010100289700003040390

Date: July 6, 2019

NOTE: The post-harvest field gleanings should be completed as soon after harvest as possible, and must be done within 3 days after harvest. If the sample field has been plowed, disked, or pastured since harvest, select an alternate field for gleaning if one is available in the tract or nearby field (in the sample operation) for list frame sample(s).
Form E: Laying out the Gleaning Unit

• Basically it is the same as the laying out the count area, only add 5 more steps

• You will have a 5 foot buffer zone to the right of your yardstick

• At the beginning of the buffer zone measure the distance from the center of row 1 to the center of row 5
Form E: Paces

UNIT LOCATION (*Diagram on reverse side*)

<table>
<thead>
<tr>
<th>UNIT LOCATION</th>
<th>UNIT 1</th>
<th>UNIT 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Number of paces along edge of field</td>
<td>162 + 5</td>
<td>192 + 5</td>
</tr>
<tr>
<td>2. Number of paces into field</td>
<td>239 + 5</td>
<td>269 + 5</td>
</tr>
<tr>
<td>3. Measure distance from stalks in Row 1 to stalks in Row 5</td>
<td>Feet and Tenths</td>
<td>704 3.4</td>
</tr>
</tbody>
</table>

- Add 5 paces to original paces along edge and into the field for both units
- Record all distances in feet and tenths of feet
Laying out the Gleaning Unit

- Measure the 5 foot buffer zone and insert a red stake in the stubble of row 1
- Reposition the yardstick to cross four drill rows
- Insert the frame so the back of the frame is parallel to the row and the inside corner of the left tine touching the stake
- Insert a stake touching the corner of the right tine
Laying out the Gleaning Unit

• In row 4, insert the frame so that the stubble of row 4 is excluded

• Place two red stakes touching the corners of the left and right tines

• Connect all four stakes with ribbon so three drill rows and three middles will be included and row 4 stubble will be excluded.
Pick up Loose Grain & Heads

• Pick up attached stalks, detached stalks, heads, and loose grains within the boundaries

• **INCLUDE** the items above that are on the **two starting corner boundaries**

• **EXCLUDE** everything that are on the two remaining boundaries
Preferred Packaging – Gleaning Sample

• Remove as much debris as possible

• **One bag for both units**

• Check Gleanings box on Pink ID Card

• Include Form E in the Tyvek Envelope
Form E: Completed

GLEANINGS (Place all gleanings from both units in one paper bag.)

4. PICK UP IN BOTH UNITS---a. All unthreshed whole heads .........................
   b. All partly threshed heads .............................
   c. All loose wheat grains ..............................

   CHECK EACH BOX AS COMPLETED
   [ ] [ ]

5. Was an alternate field used for making post-harvest observations?
   [ ] YES — (Indicate in Field Notes)   [ ] NO

   FIELD NOTES: If post-harvest observations cannot be made, give reasons here.
   ____________________________________________________________
   ____________________________________________________________

6. Did a supervisor assist you in working this sample?   [ ] YES   [ ] NO

80 grains = 1 bu of loss
Both Units = One Paper Bag

• Put all gleaning for both units in the same paper bag (go easy on the taping)

• Complete the pink ID tag and attach to paper bag with a rubber band
Need Matching Dates

Date: July 6, 2019
• Ships to Saint Louis, Missouri the location of National Lab
• The Form E also gets shipped to Saint Louis, not Lincoln
UPS Procedures

• Use a BLUE UPS label to ship to the National Lab

• Place E form and paper bag in a Tyvek envelope

• Attach a BLUE UPS label and record the tracking number on the backup recording sheet

• UPS shipping via home pickup or official drop off location
  • Home Pickup Phone Number (800) 742-5877
  • Home Pickup requires planning ahead for the next day, not same day pick up
Questions?
Due Dates, Shipping, and Quiz Review
## Due Dates - Kansas

<table>
<thead>
<tr>
<th>Survey Date</th>
<th>Field Work Begins</th>
<th>Forms to be Completed</th>
<th>Field Work Ends</th>
<th>Last Day to UPS or Enter Form B in CAPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 1</td>
<td>April 24</td>
<td>All A forms**</td>
<td>May 1</td>
<td>May 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Even B forms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 1</td>
<td>May 25</td>
<td>Remaining A forms</td>
<td>May 31</td>
<td>June 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All B forms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>July 1</td>
<td>June 24</td>
<td>All B forms</td>
<td>July 1</td>
<td>July 2</td>
</tr>
</tbody>
</table>

**Even A forms are required, but all A’s can be completed.
Form E must be submitted to the National Lab within 3 days of harvest.
Due Dates

• Due dates must be followed
  • Supervisors will be contacted for missing forms
  • Inform supervisors and Lincoln office for special situations

• Always send forms and samples as soon as possible – **do not hold**
  • A & B Forms (UPS White – Lincoln, NE)
  • Samples & E Forms (UPS Blue – St. Louis, MO)
    • St. Louis Blues hockey team
Due Dates - continued

- Final Pre-harvest sample
  - Complete during the regular survey period if maturity code 6 or 7

- Final Harvest sample
  - Complete between survey period if the farmer is going to harvest
  - No more than 3 days before farmer harvest
  - Send B Form to NE (UPS white) & Wheat sample to the Lab immediately (UPS blue)
    - Do not hold until the regular survey period

- Gleaning
  - Complete within 3 days after farmer harvest
  - E Forms are sent to the Lab with the sample (UPS blue)
  - Follow the packaging instructions
Shipping

• Good Shipping Procedures
  • Reduce transit time
  • Reduce loss of samples whenever a shipping tag is damaged in transit
  • Preserve sample quality

• Remember to include an ID tag for both units
  • If only one unit being shipped, send second loose ID tag with explanation for absence (lost to harvest, not planted, drowned out, blank area, etc.)
  • Reduce loss of samples whenever a shipping tag is damaged in transit
Shipping - continued

• Shipped UPS 2\textsuperscript{nd} Day Air
  • Samples should be taken to UPS drop off location or UPS store
  • Also have the option for home pickup
    • See handout - 2019 Objective Yield UPS Procedures

• Record the tracking number for each sample:
  • Form B – paper version
  • Back-up Recording Sheet
  • Makes sure the data you collect is received
  • Also helps NASS get reimbursed if not shipped in two days
Field Enumerator Reference Sheet

- Covers school topics
- Useful for reminders and instructions
  - Filling out forms
  - Assembling units
  - Special situations
  - Fieldwork and due dates
  - Wheat growth stages (Maturity codes)
- Shipping procedures
- Manual pages to reference if needed
- And more!
Click [here](#) to access

or type **Kahoot.it** into your web browser
Workshop Evaluation

• Please complete the workshop evaluation at the following link:
  https://www.surveymonkey.com/r/7TVMQ7M