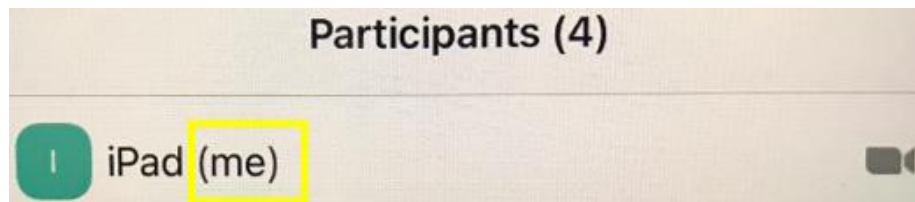


# Zoom Instructions – Name

- Touch your screen to see the menus, then click on “Participants”

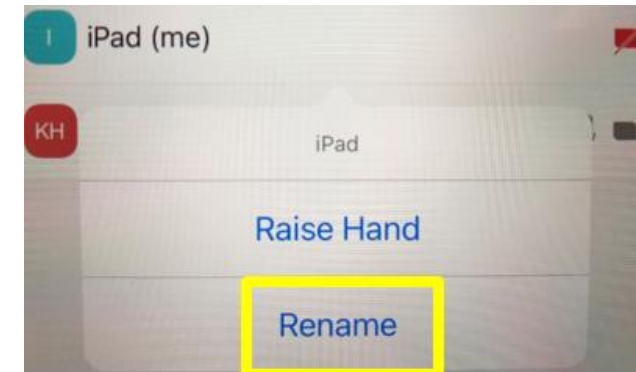


- Your name followed by (me), towards top.

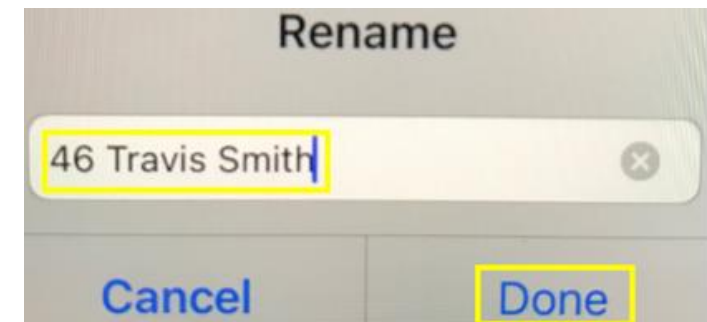


- If your full name is not displayed then click on what is currently being displayed.

- Click on “Rename”

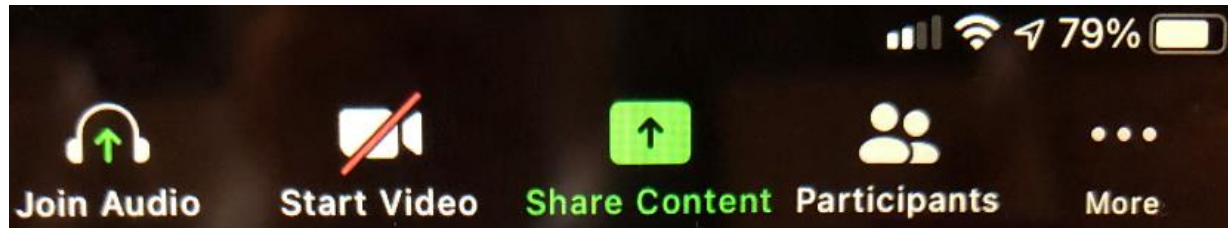


- Type state fips, first & Last name

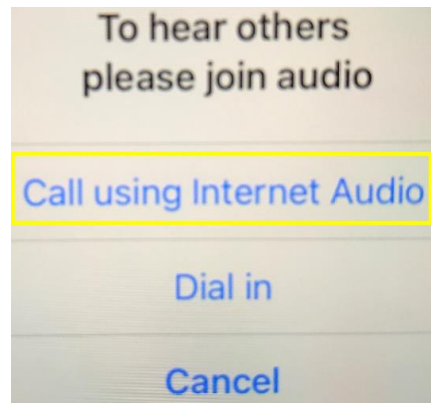


# Zoom Instructions - Audio

- Touch your screen to see menus. If you see “Join Audio” then click on it.

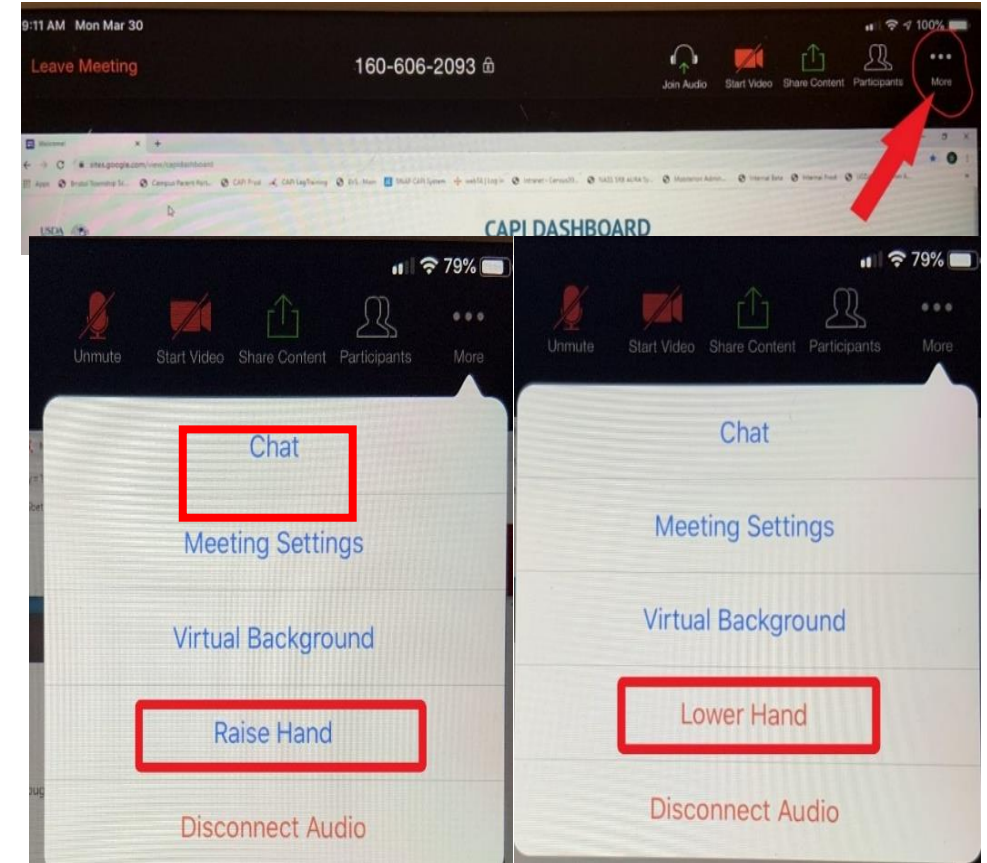


- Click on “Call using Internet Audio” this is the preferred method or if you select “Dial in”, you will be presented with phone numbers to call.



# Zoom Conference

- We will be using the lower / raise hand feature in Zoom.
- If you have a question please “Raise Hand”.
  - When called on by the presenter unmute so that you can ask your question.
- If you no longer have a question, you can “Lower Hand”.
- You can also use “Chat” feature to ask a question.





# Zoom Conference

We are recording this session and will potentially load to the NASDA website so team members not able to join have the opportunity to review and allow those attending to review as well, if needed.

Our local video expert in the RFO will edit to enhance or remove any statements not allowed for non NASDA\NASS consumption (PII) and to remove our conversations before the formal session begins.



# Zoom Conference

- Reminder to attendees:
  - Please keep microphone muted to prevent background noise.
  - Be aware of your surroundings if you have your camera turned on.
  - If you have an issue, contact your NASDA coordinator for help, or make a note in the chat box.
- Reminder to presenters:
  - Make sure to speak towards your computer microphone, so voice is picked up and heard by attendees. Don't rush! If you need to, use headphones or call in.
- Questions at end:
  - Use Raise Hand feature in zoom or put question in chat box.
  - When called on, be sure to unmute your microphone.
  - Will look at chat box and raised hands before we end the meeting.



United States Department of Agriculture  
National Agricultural Statistics Service



# Winter Wheat Objective Yield Zoom Training



April 19, 2022  
9:00 am Central Time







# Introductions

- Nick Streff – Director of Northern Plains Region
- Christy Meyer – Deputy of Northern Plains Region
- Doug Bounds – Kansas State Statistician
- Lynne Pelan – Kansas NASDA Coordinator
- Andrew Van Engelenhoven – Nebraska NASDA Coordinator
- Devin Van't Hof – WOY Program Manager & Nebraska WOY Stat
- Sean Fedt – Kansas WOY Statistician
- Paul Sueper – WOY Group Leader

# Management Welcome





# State Statistician Comments





# Northern Plains Contacts

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Devin Van't Hof – Program Manager

(402) 470-8770

[Devin.VantHof@usda.gov](mailto:Devin.VantHof@usda.gov)

Paul Sueper – Group Leader

(402) 470-8757

[Paul.Sueper@usda.gov](mailto:Paul.Sueper@usda.gov)

Office Phone: (800) 582-6443





# Northern Plains Contacts for Wheat

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## KANSAS

Lynne Pelan – NASDA Coordinator  
(785) 260-3652 cell  
[Lynne.Pelan@usda.gov](mailto:Lynne.Pelan@usda.gov)

Sean Fedt – Kansas Wheat  
(402) 470-8754  
[Sean.Fedt@usda.gov](mailto:Sean.Fedt@usda.gov)

## NEBRASKA

Andrew Van Engelenhoven - NASDA  
(402) 440-3209 cell  
[Andrew.VanEngelenhoven@usda.gov](mailto:Andrew.VanEngelenhoven@usda.gov)

Devin Van't Hof – Nebraska Wheat  
(402) 470-8770  
[Devin.VantHof@usda.gov](mailto:Devin.VantHof@usda.gov)



# Introductions



## **KANSAS**

- Dale Schilling
- Judy Bevan
- Dena Tabor
- Greg Koppes
- Jerry Hessman
- Amanda Cook
- Renee Harman

## **NEBRASKA**

- Yolanda Ambrosek
- Bonnie Emerson
- Don Kneifl
- Janita Kube
- Kay Kallsen



# Agenda

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- Purpose
- Form A
- Pesticide Safety
- Unit Location
- Form B
- Preferred Packaging
- Form E
- Due Dates & Grain Shipping
- Survey Monkey Quiz
- Question and Answer Session



# Workshop Overview

---

- Housekeeping Items
  - If you have an issue, please contact your NASDA Coordinator for help.
  - Please keep your microphone muted to prevent background noise.
  - Please hold questions until the specified allotted time and/or group breakout sessions.
  - Please have the training packet readily available which contains the following items: WOY Booklet, Questionnaires and Interviewer's Manual.





# Goals

- Refresher training
  - For experienced enumerators
- Basic tools
  - new enumerators
- Kit envelopes contain Forms A, B & E
  - Samples bundles contain materials used for units & grain
- Share knowledge and interact with other enumerators
- Meet NPR office staff



# Additional Training

- Supervisors and enumerators are authorized for additional training.
  - Supervisor may meet with their group.
  - Supervisors may meet individually with their enumerators.
  - Time is available at your supervisor's discretion.
  - Recommend a field practice exercise with laying out the units.



## 3 UPS packages

1. Training Packet
2. Samples bundles, gleaning bundles and kit envelopes
3. Bamboo Poles

\*New enumerators also should have received WOY satchels



# Training Packets

- Training Memo
- Cover Letter & Background Sheet
- Training Booklet
- Interviewer's Manual
- Forms A & B – practice forms
- Blank Forms A, B, & E
- Yellow and Pink ID tags
- Quiz
- Reference Sheet
- Packaging Standards
- UPS Procedures
- Trifold Brochure
- Wheat Objective Yield Procedures booklet
- Grid Map



# Kit Envelopes

- Each sample has a kit envelope
- Each kit envelope contains
  - Form A
  - Form B – multiple months
  - Form E – if the sample is divisible by 4
  - Yellow and Pink ID tags
  - Grid Map



# Sample Bundles

- Sample Bundles
  - Packaging supplies for shipping grain
  - Unit stakes
- Gleaning Bundles
  - Packaging supplies for shipping gleaning grain
  - Unit stakes







# Extra Supplies - Enumerators

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- WOY Satchel
  - Bamboo Poles
  - Flagging Ribbon
- 
- If you are running low on supplies, contact your Supervisor

# Resources on the NPR NASDA Website

- CAPI Dashboard: NASDA
- Go to the “Northern Plains Region” area.
- Under “Objective Yield” tap on the document you want to download to Books.
- Tap on the box with the arrow pointed up.  Located in the upper right corner.
- Tap on “Copy to Books” to take you directly into Books.   
Copy to Books
- Once a document is downloaded to Books (icon on your home screen), it is saved on your iPad & can be accessed without a signal.



# NPR NASDA Website – Objective Yield

- Website: <https://www.nasda.org/organizations/northern-plains-region>

Objective Yield	
Wheat OY – Unit Location (7 min)	Soybean Home Study Quiz
Wheat OY – Form B (2 min)	Course Evaluation
Wheat OY – Crop Maturity (15 min)	2021 Corn & Soybean OY Training
Wheat OY – Form E (4 min)	Lab Sample Packaging
2021 Wheat Oy Enumerator Training	OY Pre-Survey Letter
Corn Home Study Quiz	



# NASDA Administration

- Charge all time and expenses for Wheat OY to Project Code 101
- Mid Year Workshop
  - Kansas - May 17 (8:00a to 5:00p)
  - Nebraska - May 19 (8:00a to 5:00p)



# Winter Wheat Objective Yield

April 19, 2022

Project Code 101





# Purpose

- The purpose of the wheat objective yield survey is to accurately forecast the production of wheat at the State, Regional, and National levels. We also find harvest loss and change in acreage intentions for harvest.
- The monthly Crop Production reports provide reliable and timely information to use by farmers to make knowledgeable marketing strategies and business decisions.
- The Objective Yield survey provides factual information about wheat crop like row width, plants per acre, heads per square foot, grain weight, moisture content and harvest loss. All grain samples are processed at the National OY lab in Saint Louis, MO.





# Wheat Objective Yield Program

- Program
  - Field counts, measurements & grain weights to forecast wheat yields
  - 10 States are in the program with 78% coverage of wheat harvested & 70% coverage of wheat production
- Farmer Benefit
  - Update marketing strategies (forward contract, hedge into futures, cash market)
  - Decide on farming practices (sell vs store)
  - Change intended crop usage – harvest, graze, silage, hay or feed usage.
- USDA doesn't drive down prices
  - Actual supply entering the market, along with demand determines prices
  - 50% - Wheat price **increased** one week after report over the last 35 years
  - 48% - Wheat price **decreased** one week after report over the last 35 years
  - 2% - Wheat price had **no change** one week after report over the last 35 years



# Winter Wheat Yield Estimates

- In-Season Forecasts (for winter wheat May 1 - August 1)  
Published near the 10<sup>th</sup> - Crop Production Report
  - Ag. Yield
    - Subjective
    - Inexpensive
  - Objective Yield (OY)
    - Actual counts of stalks and grain-objective
    - Expensive
  - Remote Sensing
    - Satellites used to measure vegetation to model yield
- Year End
  - Final OY
  - County Agricultural Production – small grains (CAPS)
  - September Agricultural Production Survey (APS)



# Winter Wheat Objective Yield

- 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 and then data entered into CAPI
  - Wheat clippings, final pre-harvest, and gleanings
    - Bagged and shipped
- National Lab in Saint Louis, Missouri
  - Number of heads, weight of heads, thresh, moisture content, test weight
  - Form E – harvest loss

# Sample Size

- Samples are drawn from the March Agricultural Survey
- Wheat
  - Regional Count
    - Kansas
    - Nebraska





# NASDA Guidance

- Driving to WOY field locations
  - Allowed to drive to the field to set up field plots and make crop counts
  - Enumerators should not have in person contact with the respondent
  - NASDA recommends supervisors drive separately with new hires
    - Carpooling is allowed if both parties feel safe and comfortable
  - Enumerators claim mileage for approved travel time
  - Enumerators can claim \$25 for any PPE like face masks, gloves, etc.
  - Enumerators should follow any state or local orders of social distancing recommended by local government agencies, public health and medical professionals
  - FO and SAB are currently evaluating all options in terms on in-person data collection activities, including OY. At this time, in-person activities beyond ARMS 3 impact records has not been approved.

# Use of Crop Production Report

- End Users
  - Farmers, bankers, credit associations, buyers, economist, policy makers, media, brokers, extension, and universities
- Communicated Through
  - Farm magazines, radio, Internet, TV (RFD), newspapers, commodity news services, email and State Field Offices
- Unbiased source
  - No one has an advantage that could unfairly influence prices
- Grain Markets
  - It is actual supply entering the market along with demand that determines prices for farmers
  - USDA reports have had a positive effect on prices as often as negative effect.



# Crop Production Report Dates

- May 12<sup>th</sup> at 11:00 am CT
  - Crop Production Report (forecast)
- June 10<sup>th</sup> at 11:00 am CT
  - Crop Production Report (forecast)
- July 12<sup>th</sup> at 11:00 am CT
  - Crop Production Report (forecast)
- August 12<sup>th</sup> at 11:00 am CT
  - Crop Production Report (forecast)
- September 30<sup>th</sup> at 11:00 am CT
  - Small Grains Summary (final)

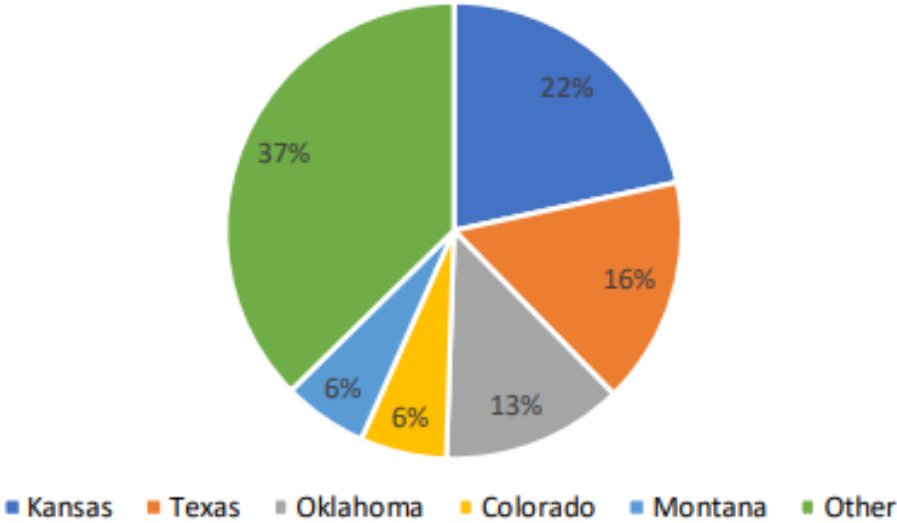


# 2022 Winter Wheat Planted Acreage

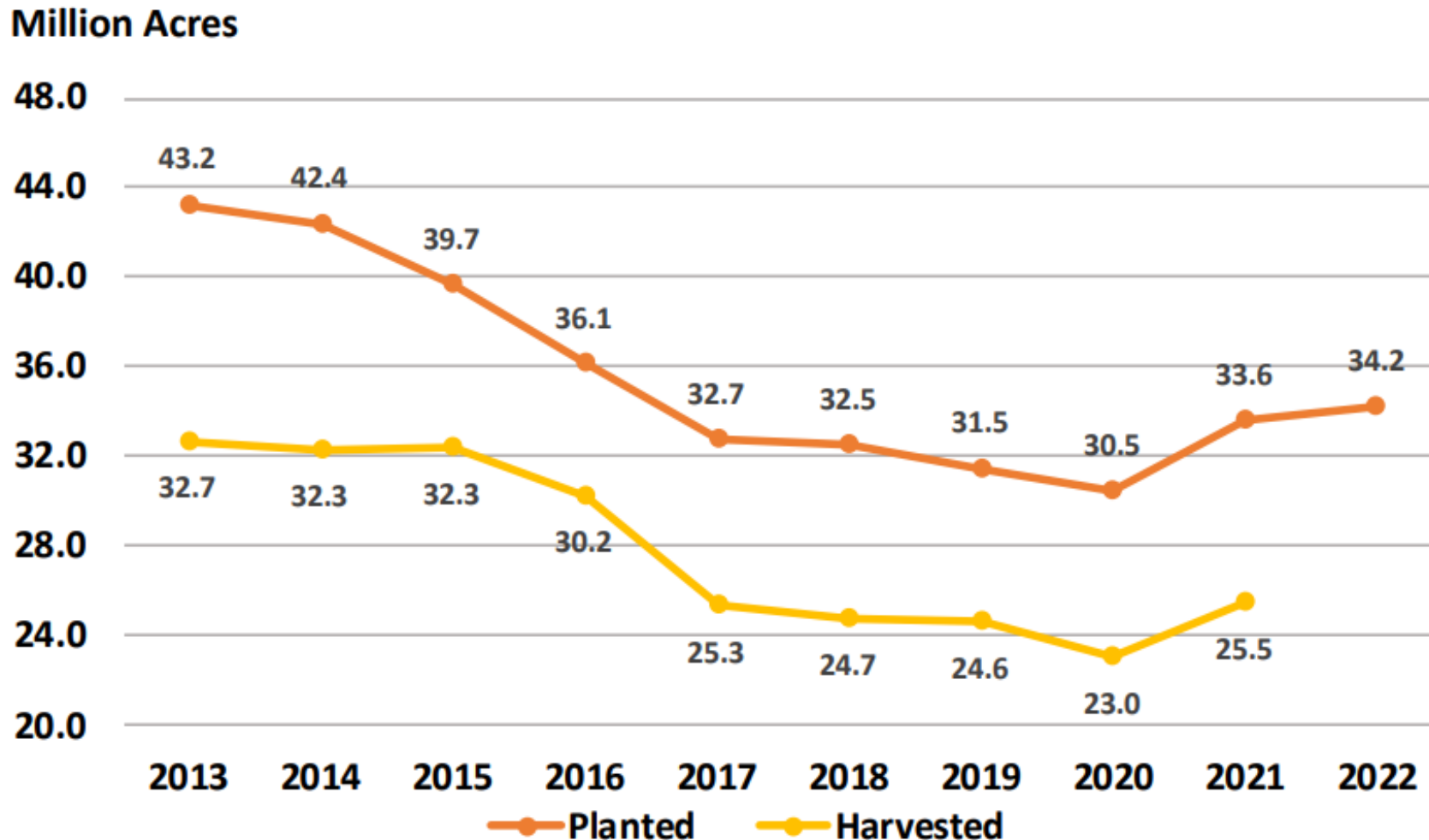
	Planted (1,000 Acres)	
<b>United States</b>	<b>34,236</b>	
% Change from Previous Estimate	↓	0.5
% Change from Previous Season	↑	1.7

	Top 5 States Planted (1,000 Acres)		% Δ PY	
Kansas	7,400	↑	1.4	
Texas	5,500		NC	
Oklahoma	4,400		NC	
Colorado	2,100	↓	4.5	
Montana	2,050	↑	5.1	

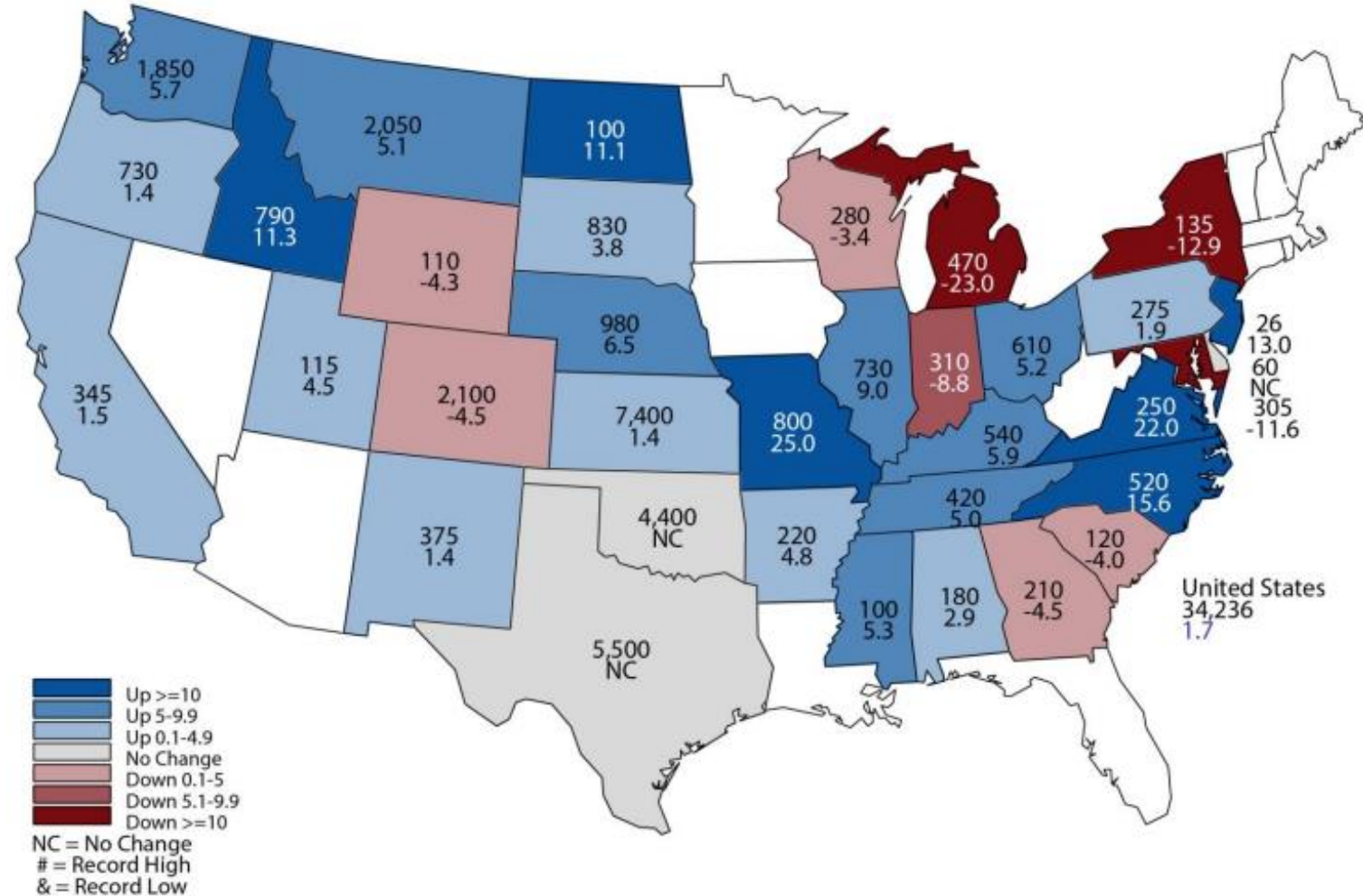
2022 Winter Wheat Planted Acres  
By State



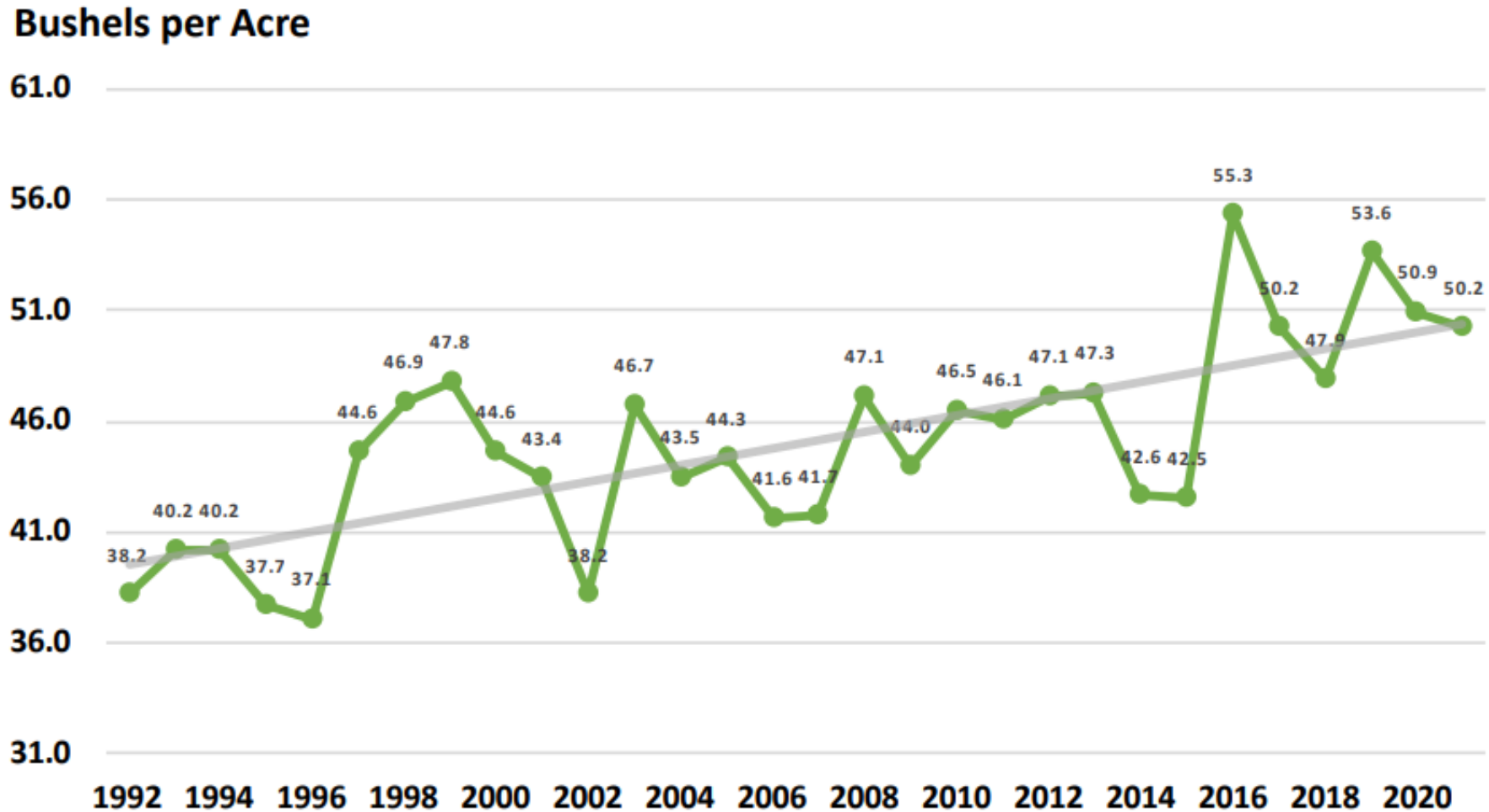
# Winter Wheat Planted & Harvested Trend



# 2022 Winter Wheat Acreage Map & Change

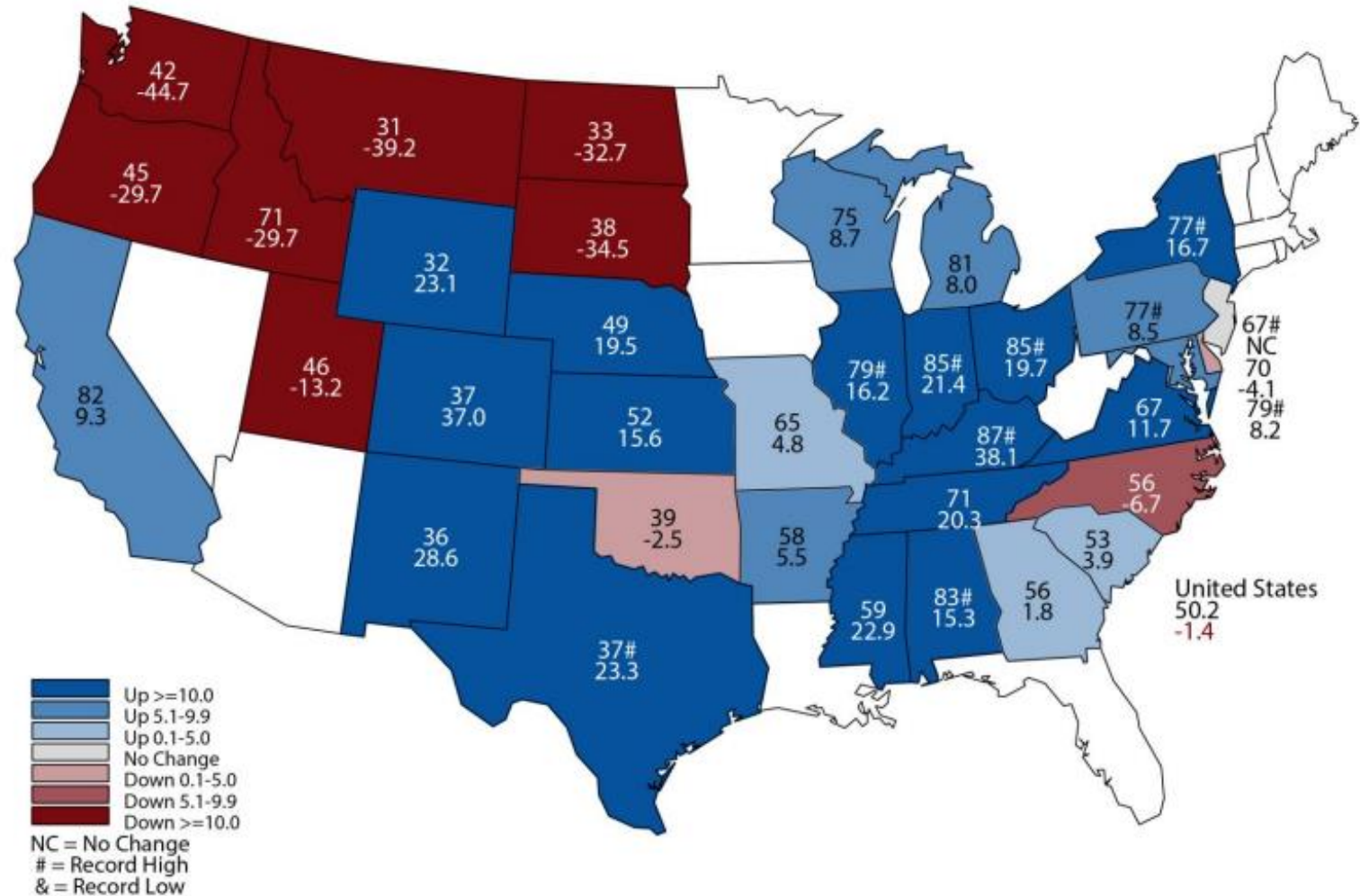


# Winter Wheat US Yield Trend





# Winter Wheat US Yield Map & Change



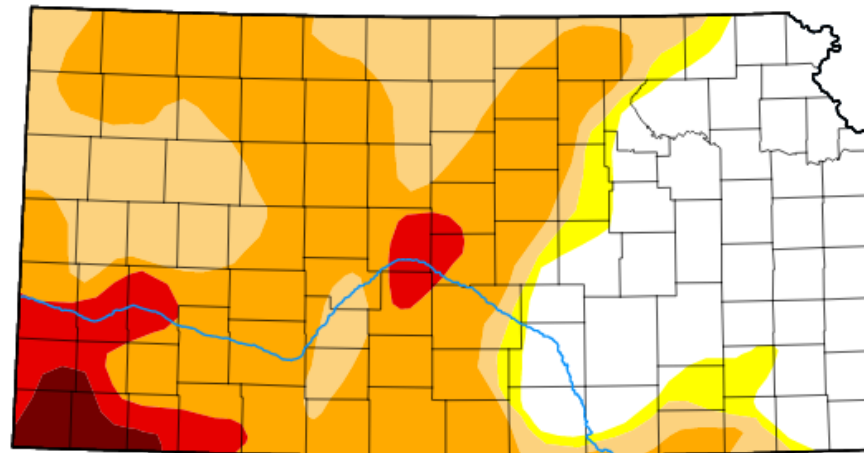


# Kansas Drought Monitor Map

As of April 10<sup>th</sup>, Kansas winter wheat conditions rated:

- 12% percent very poor
- 20% poor
- 34% fair
- 31% good
- 3% excellent

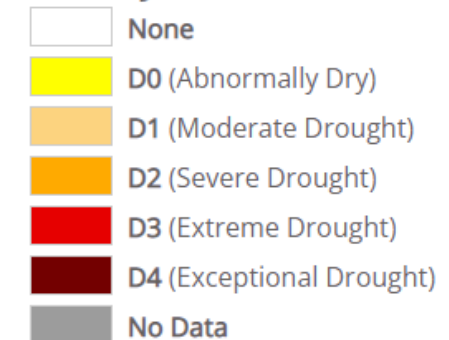
Winter wheat jointed was 20%, behind 26% last year and behind 27% for five-year average.



**Map released: Thurs. April 7, 2022**

Data valid: April 5, 2022 at 8 a.m. EDT

## Intensity



## Authors

United States and Puerto Rico Author(s):  
Deborah Bathke, National Drought Mitigation Center

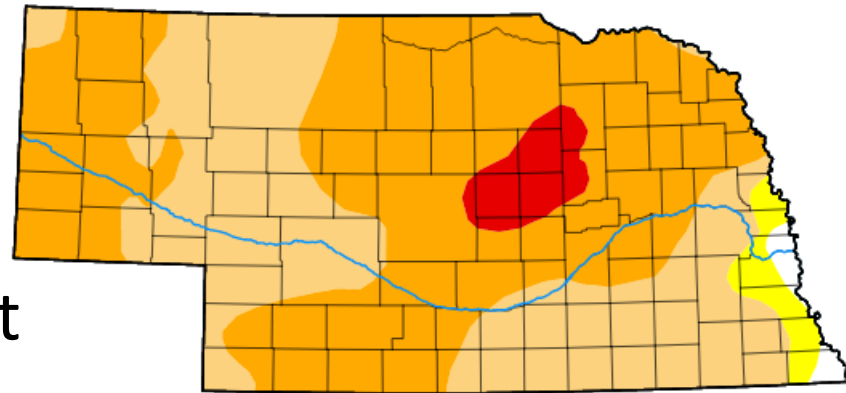
- 67% of the state is experiencing moderate to extreme drought

# Nebraska Drought Monitor Map

As of April 10<sup>th</sup>, Nebraska winter wheat conditions rated:

- 8% percent very poor
- 14% poor
- 46% fair
- 29% good
- 3% excellent

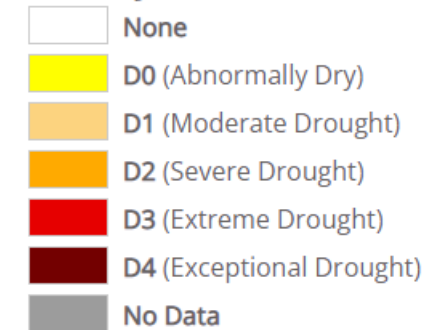
Winter wheat has not started jointing.



**Map released: Thurs. April 7, 2022**

**Data valid: April 5, 2022 at 8 a.m. EDT**

## Intensity



## Authors

United States and Puerto Rico Author(s):  
**Deborah Bathke**, National Drought Mitigation Center

- 96% of the state is experiencing moderate to extreme drought



**United States Department of Agriculture**  
**National Agricultural Statistics Service**



# Form A

## Winter Wheat Objective Yield Survey Initial Interview 2022





# 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 field that we will collect the wheat objective yield data



# Procedures

- Form A will be entered into CAPI
- Form A to be completed by **PHONE ONLY**
  - No face to face interaction
- No beginning/ending time
- Enter Form A as you complete interviews
- Sample Field Selection will be the **C**losest or **F**urthest field in a Cardinal direction

# Procedures - continued

- The Sample will be labeled with one of the following cardinal and intercardinal directions:
  - N = North
  - NE = Northeast
  - E = East
  - SE = Southeast
  - S = South
  - SW = Southwest
  - W = West
  - NW = Northwest

**FORM A - 1: WINTER WHEAT**

1. Earlier this season, the number of winter wheat acres you intended to harvest on all the land you operate was..... ACRES **101 620.0**  
(Do not change)

2. What are the total acres of winter wheat for harvest on the land you operate? (If total equals zero, end interview)..... ACRES **102 80.0**

Now, I need to identify one (or more) of your winter wheat field(s) and get their acreage.

Complete Table A for the winter wheat fields based off the cardinal directions indicated in column 1 below

SAMPLE Number and Direction	TOTAL ACRES IN FIELD	Acres in USE or CROPS OTHER THAN WINTER WHEAT to be HARVESTED for GRAIN or SEED (For example: not seeded, bare spots, winter kill, waterways, roads, other crops, etc.)		LOCATION DESCRIPTION/ INTERSECTION OF FIELD (E.g., landmarks, features, street intersections)
		USE	ACRES	
1	2	3	4	5
13 FSW	80.0			3 miles S; 1 mile west of town



# Verify Name and Address

- If there are any changes correct both Form A and the Kit Envelope
- Write notes in CAPI





# Initial Interview

- Based on what was intended to harvest for grain from March Agricultural Production Survey
- Reported acreage cannot be changed
  - Make notes if the recorded acreage is incorrect

FORM A - 1: WINTER WHEAT

1. Earlier this season, the number of winter wheat acres you intended to harvest on all the land you operate was..... ACRES **620.0**  
(Do not change)



# Acreage Differences

- **Include** acreage that was counted in March that may have changed hands since.
- **Exclude** newly acquired land since March 2022



# Total Acres of Winter Wheat

- In box 102 put the total wheat acres
- Verify acreage with operator – DON'T COPY Pre-recorded Data

2. What are the total acres of winter wheat for harvest on the land you operate?  
(If total equals zero, end interview)..... ACRES

102

# Table A

- Sample field is denoted by **C**losest or **F**urthest and Cardinal Direction (ex. **FNE**)
- Columns 2, 3, 4, and 4 are unchanged
  - Total field acres, use (such as ditches), and number of acres for those uses

FORM A - 1: WINTER WHEAT

1. Earlier this season, the number of winter wheat acres you intended to harvest on all the land you operate was..... ACRES **101 620.0**  
(Do not change)

2. What are the total acres of winter wheat for harvest on the land you operate?  
(If total equals zero, end interview)..... ACRES **102 320.0**

Now, I need to identify one (or more) of your winter wheat field(s) and get their acreage.

Notes:

- For Sample Field 1, complete Table A for the winter wheat field closest to the respondent's residence.
- For Sample Field(s) 2- 8, complete Table A for the winter wheat field(s) based off the cardinal directions indicated on the label (e.g., northern most field)

**TABLE A**

SAMPLE Number and Direction	TOTAL ACRES IN FIELD	Acres in USE or CROPS OTHER THAN WINTER WHEAT to be HARVESTED for GRAIN or SEED (For example: not seeded, bare spots, winter kill, waterways, roads, other crops, etc.)		LOCATION DESCRIPTION/ INTERSECTION OF FIELD (E.g., landmarks, features, street intersections)
		USE	ACRES	
1	2	3	4	5
1-H	160.0			NE corner 1 <sup>st</sup> & A

# Table A – Multiple-sample Operations

- Selected field is denoted with the sample number, if it is the closest or furthest field in a direction, and a cardinal direction

TABLE A				
SAMPLE Number and Direction	TOTAL ACRES IN FIELD	Acres in USE or CROPS OTHER THAN WINTER WHEAT to be HARVESTED for GRAIN or SEED (For example: not seeded, bare spots, winter kill, waterways, roads, other crops, etc.)		LOCATION DESCRIPTION/ INTERSECTION OF FIELD (E.g., landmarks, features, street intersections)
		USE	ACRES	
1	2	3	4	5
4-W				

TABLE A				
SAMPLE Number and Direction	TOTAL ACRES IN FIELD	Acres in USE or CROPS OTHER THAN WINTER WHEAT to be HARVESTED for GRAIN or SEED (For example: not seeded, bare spots, winter kill, waterways, roads, other crops, etc.)		LOCATION DESCRIPTION/ INTERSECTION OF FIELD (E.g., landmarks, features, street intersections)
		USE	ACRES	
1	2	3	4	5
5-H				



# Finding a Sample Field

- Making sure you are in the correct field:
  - Use the grid map with great details like specific roads or intersections
  - Use the 911 street names
  - If you both have smart phones have the respondent send you a pin on Apple or Google maps
  - Get the legal description and use a plat map to find the field
  - Get the FSA farm number



# Sample Field Characteristics

- Item 3 – Sample Field Information

FORM A - 1: WINTER WHEAT - Continued

The remaining questions on this page apply to this SAMPLE.

3. For the Sample Field, subtract Column 4 from Column 2 for the total acres of winter wheat to be harvested for grain or seed. Report these acres here:

ACRES

- Item 4 – Wheat Class

4. What class of wheat was seeded in the Sample Field? \_\_\_\_\_

1 ☐ HARD RED Winter      2 ☐ SOFT RED Winter      3 ☐ WHITE Winter

CODE

- Item 5 – Irrigated

5. Has this field been (or will it be) irrigated?

1 ☐ Yes      3 ☐ No

CODE

# Plotting & Pesticides

- Item 6 - Explain plotting processes

6. 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 7 - Pesticides

- Organophosphorus applied?
- See Interviewers Manual for re-entry schedule

7. 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 \_\_\_\_\_



# Finishing Form A

- Item 8 – Respondent’s Name

8. Respondent Name: \_\_\_\_\_

IMPORTANT: Review for completeness. Sign name.  
Record expected harvest date, pesticide intentions, (item 7), and operator's  
telephone number on your kit envelope.

- Item 9 – Enumerator Information

9. Enumerator Name: \_\_\_\_\_

Enumerator Number	190
Supervisor Number	191
Evaluation	193



# Friendly Reminders

- ✓ **NO FACE TO FACE DATA COLLECTION. PHONE ONLY**
- ✓ Form A's will be entered via CAPI
- ✓ All samples will have a cardinal direction and an indication if it is the closest or furthest in that direction
- ✓ A field may have more than one sample





# Pesticide Safety



# Pesticide Safety

- A pesticide safety program has been developed for all employees who may be exposed to pesticides while working WOY.
- This program is designed to protect you from the possibility of overexposure.
- Organophosphorus insecticides are used on most crops.

Organophosphorus Chemicals Commonly Used in Wheat Production	
Trade Name(s)	Common Name
Bracket, Orthene.....	Acephate
Sniper .....	Azinphos-methyl
Eraser, Govern, Lorsban, Nufos, Pilot, Warhawk, Whirlwind .....	Chlorpyrifos
Cobalt Advanced .....	Chlorpyrifos plus gamma-cyhalothrin
Stallion .....	Chlorpyrifos plus zeta-cypermethrin
Cygon, Cymate, De-Fend, Digon, Dimate, Dimethoate .....	Dimethoate
Disyston.....	Disulfoton
Ethyl parathion.....	Ethyl parathion
Atrapa, Fyfanon, Malathion .....	Malathion
Declare, Methyl parathion, Penncap-M .....	Methyl parathion
Thimet.....	Phorate



# Pesticide Safety



- Field Re-Entry Intervals
  - All Pesticides – 1 Day
  - Organophosphorous Compounds – 3 Days
    - 30 Days – Limited to 6 Hours per Day





# Pesticide Safety



- Protective Clothing
  - Wear a Long Sleeve Shirt
  - Wear Long Pants
  - Wear Head Covering
- Wear Only 1 Day and Launder Separately From Your Other Clothes!



# Pesticide Safety



- Soap and Water For Decontamination
  - Carry Water and Bath/Bar Soap
  - Thoroughly Wash All Exposed Skin Areas

# Pesticide Poisoning

## SYMPTOMS

- Headaches
- Dizzy Spells
- Nervousness
- Sudden Weakness
- Sick Stomach
- Cramps
- Pupils of the Eye reduced in Size

## SYMPTOMS

- Diarrhea
- Heavy Sweating
- Breathing Difficulty
- Coma
- Seizures
- Vomiting



# Medical Attention



- Go to the Nearest Qualified Physician!
- Notify Immediately:
  - Your Supervisor and NASDA Coordinator
- Do Not Return to the Field Without:
  - The Doctor's Written Permission
  - Completing Form NAS-016 (Rev 11/95)



**United States Department of Agriculture**  
**National Agricultural Statistics Service**



## Unit Location and Layout





# 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 w/blue banner – St. Louis), Envelopes, pencils, clipboards, etc.

**If you are running low on supplies, contact your Supervisor**





# Wheat Supply Bundles

- All bundles prepared by National Lab in St. Louis, MO
- Why Supply Bundles?
  - Consistent supplies across samples
  - Easily transferrable between enumerators
  - Eliminates time required to assemble in RFO
- Do NOT open bundles if you don't need them, we can use them next year

# Determining Paces

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

FORM A-1: WINTER WHEAT, TABLE A – Continued

The remaining questions on this page apply to the SAMPLE FIELD ONLY.

3. For the Sample Field, subtract Column 4 from Column 2 for the total acres of winter wheat to be harvested for grain or seed. Report these acres here: ACRES 103 80.0

Wi Wheat	< than 10 Ac	10-19 acres	20-39 acres	40-59.9 acres	60+ acres	Strip Wheat
<b>Unit 1</b>						
Rows=	77	139	243	327	317	154
Paces=	46	83	79	70	200	49
<b>Unit 2</b>						
Rows=	107	169	273	357	347	184
Paces=	76	113	109	100	230	79



# Unit Location

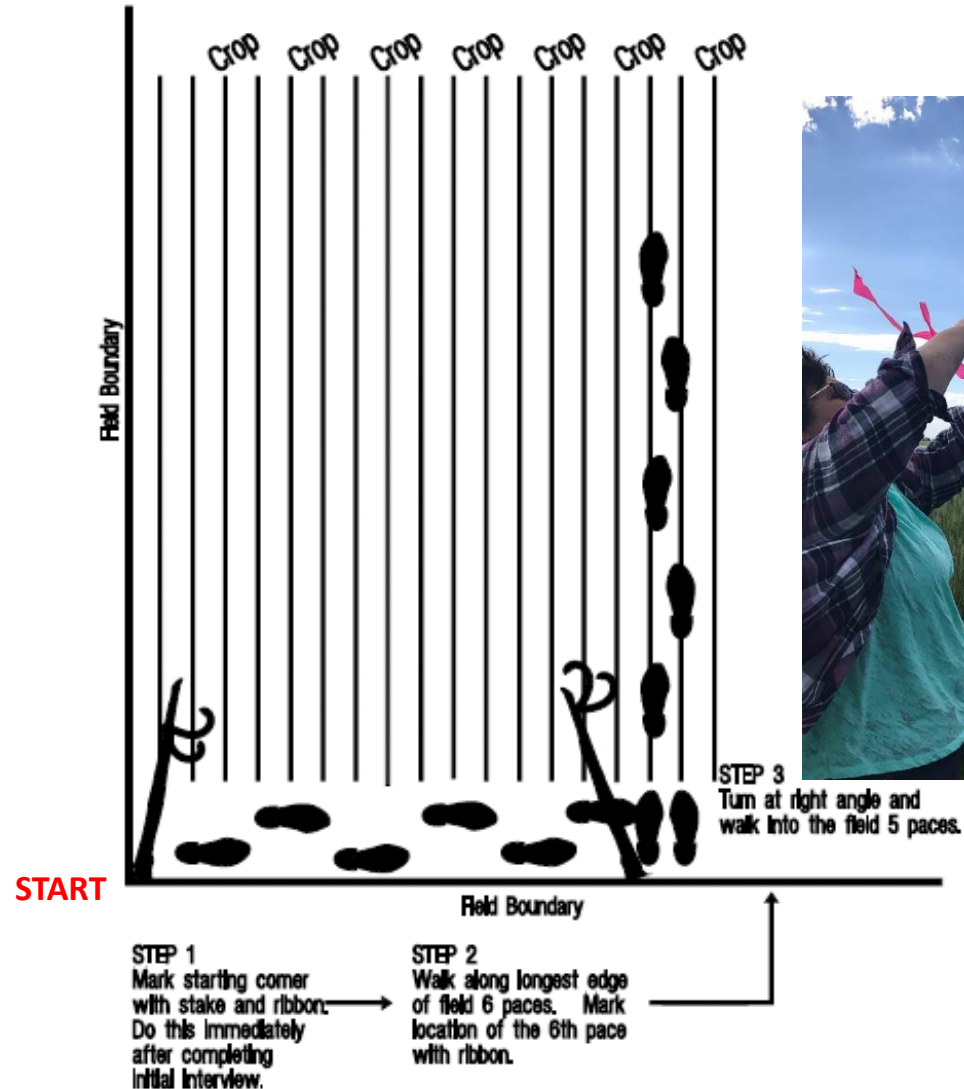
## Keep in Mind:

- ✓ For a quick refresher on laying out units, refer to the video titled 'Laying Out a Unit' on the NADA NPR page
- ✓ 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

# Unit Location

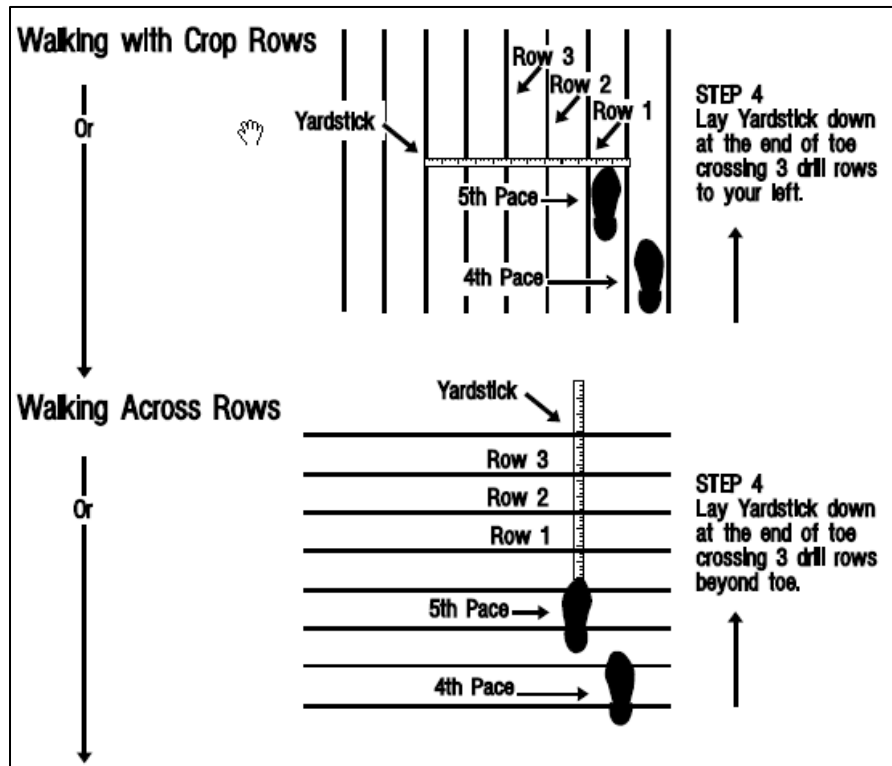
Interviewer's Manual  
Page 401-402

- Tie a piece of flagging ribbon to your poll to make it easier to find.



# Unit Location

Figure 1.



No Distinguishable Rows (Broadcast)

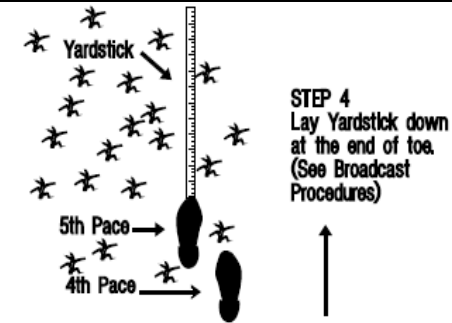


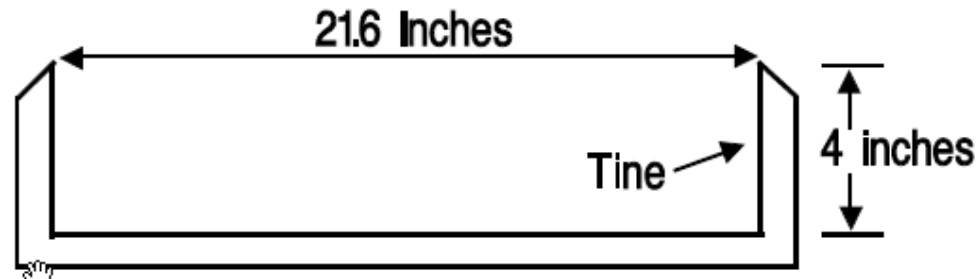
Figure 2.

- After you have completed your paces, place the yardstick so that it touches the toe of your shoe.
  - Yardstick needs to cross 3 drills rows.
    - ❖ Broadcast procedures start on page 409 of the Interview's Manual
- Lay out a five foot buffer zone to the **RIGHT** of the yardstick. (Use 50ft tape, anchor pin, wooden stakes.)
- Red florist stake will be placed at the beginning of your buffer zone.
  - ❖ Be sure to label your florist stake with the sample number.

# Wheat Frame

- Be sure to check your wheat frame (quality control)
  - Correct length (21.6 in)
  - Frame and tines are not bent
  - Halfway point marked (10.8 in)

Wheat Frame





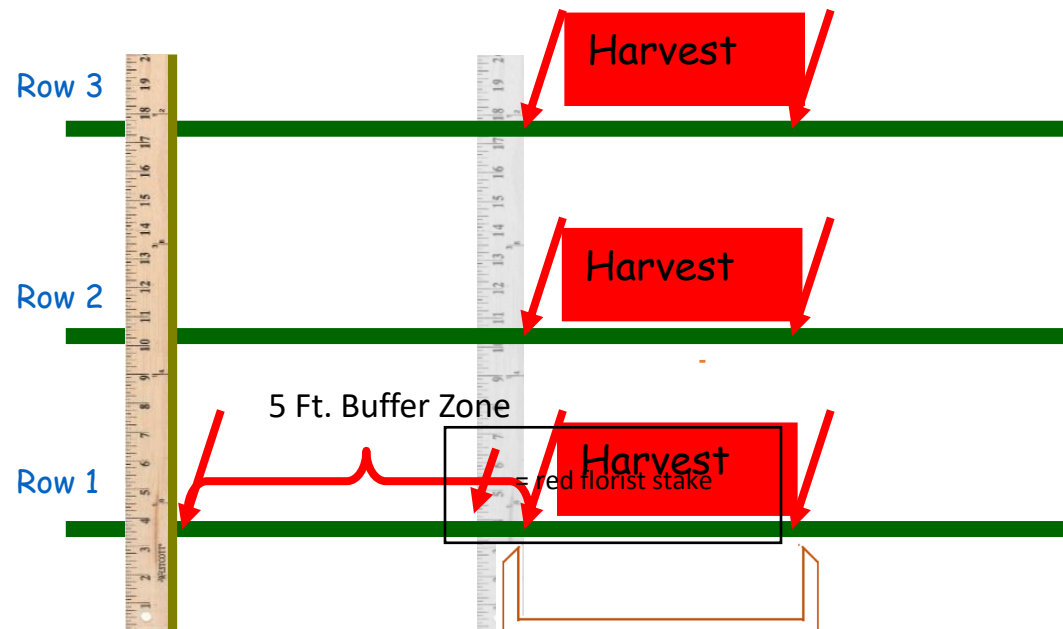
# Labeling Units

- Remember to label your wooden stakes
- S-1 (Sample 1)
- U-1,R-1 (Unit 1, Row 1)
- U-1, R-2 (Unit 1, Row 2)
- U-1, R-3 (Unit 1, Row 3)
- U-2,R-1 (Unit 2, Row 1)
- U-2, R-2 (Unit 2, Row 2)
- U-2, R-3 (Unit 2, Row 3)



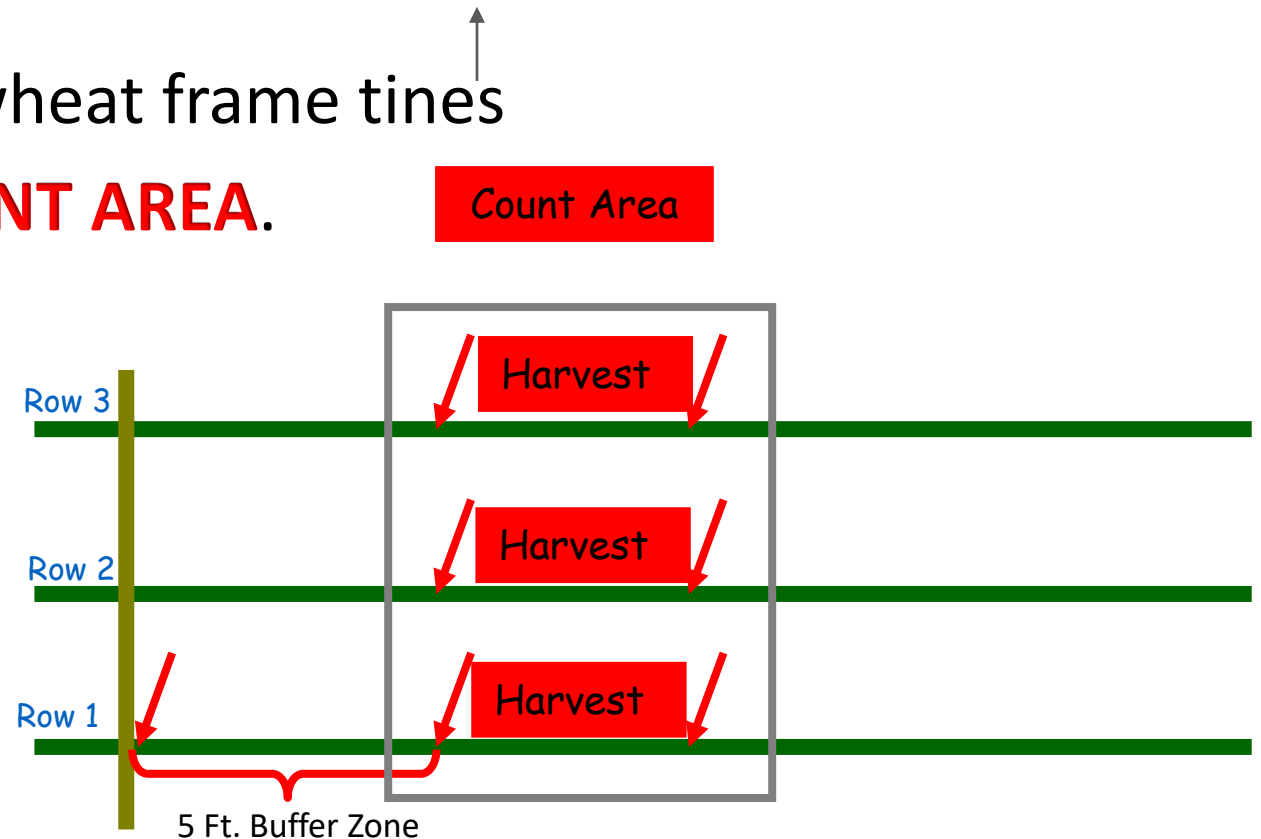
# Laying Out Unit 1 – Count Area

- Reposition yardstick to touch stake and cross three drill rows.
- Insert wheat frame into Row 1 and insert red florist stakes
  - Wheat frame identifies the length of the row included in the unit.
- Use tine to put in a red florist stake in the second row
- Do the same for row three



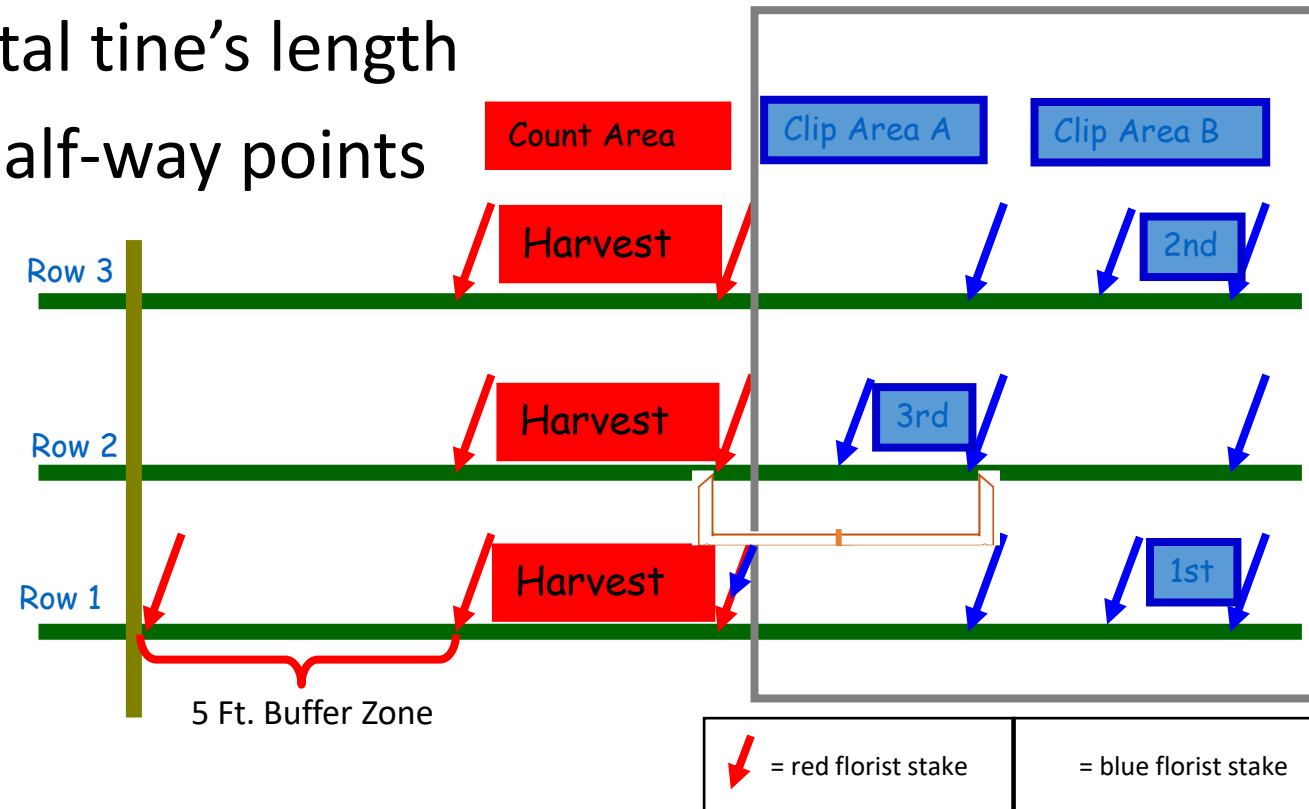
# Count vs Clip Area

- **Red stakes** mark the 1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> 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**.

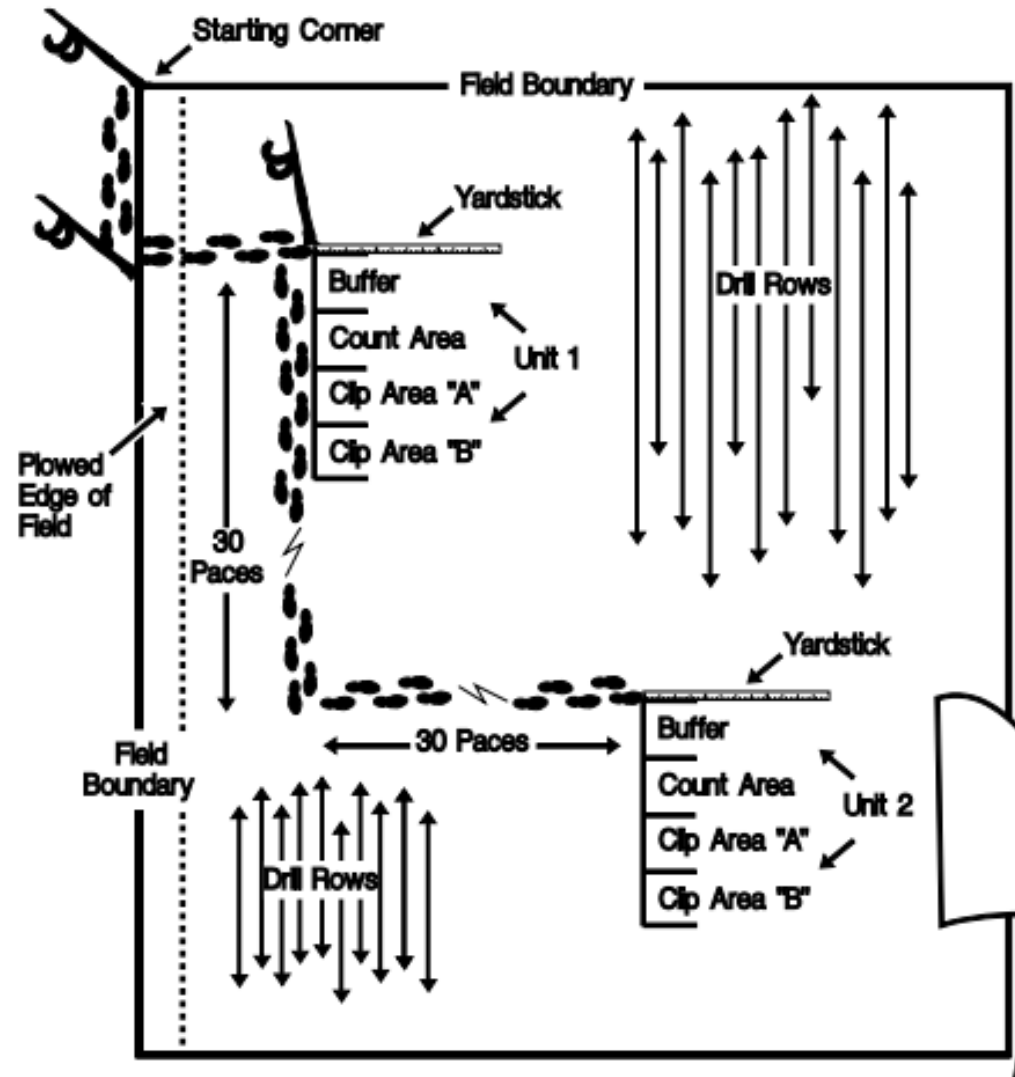


# Count vs Clip Area - continued

- **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 tine's length
- Use **blue stakes** to denote the half-way points when laying out clip areas



# Unit 1 and Unit 2 Field Locations





# Special Situations

- Bounce Back
  - You reach the end of the field and have not taken the required paces, turn around and walk back.
- Spiral Seeded Field
  - 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
  - Decrease the pace count
- Odd-Shaped Fields – Starting Corners
  - Sample unit needs to have an equal chance of falling anywhere in the field.
- Center Pivot Fields
  - Entire field including corners
  - Circle only
    - Utilize access roads used for irrigation



# Questions?





United States Department of Agriculture  
National Agricultural Statistics Service



# Form B

## WINTER WHEAT YIELD COUNTS

### 2022





# Form B – CAPI Only

- Form Bs during monthly Wheat OY data collection timeframe:
  - Enter into CAPI
  - Do not ship paper forms to NPR
- Form Bs outside of monthly data collection timeframe:
  - Hold Form Bs and enter when data collection begins again
  - Ship final harvest to lab immediately



# Form B – Matching Dates

Project Code 101 QID 120031 A-1 W

OMB No. 0535-0088 Approval Expires 3/31/2023

**FORM B**  
**WINTER WHEAT YIELD COUNTS**  
**2022**

**NATIONAL AGRICULTURAL STATISTICS SERVICE**

YEAR, CROP, FORM, MMDD	R/S/D	POID	SAMPLE	STATE
213 <u>0</u> <u>4</u> <u>2</u> <u>9</u>	1201	301606030	0048	KS

20301606030010100309800003037050

UNIT 1

UNIT 2

ROWS  
PACES

**Forecast Month May 1**

Date:

April 29, 2022

Both dates need to match

# Questionnaire Breakdown

## 1. Pesticides

1. Has operator applied pesticides with organophosphorus 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

UNIT 1		UNIT 2
	+ 30	
	+ 30	

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

Enter Code

UNIT 1	UNIT 2
305	307

When unit is Coded 3, go to item 6; otherwise go to item 5.

# Questionnaire Breakdown

## 5. Row space measurements

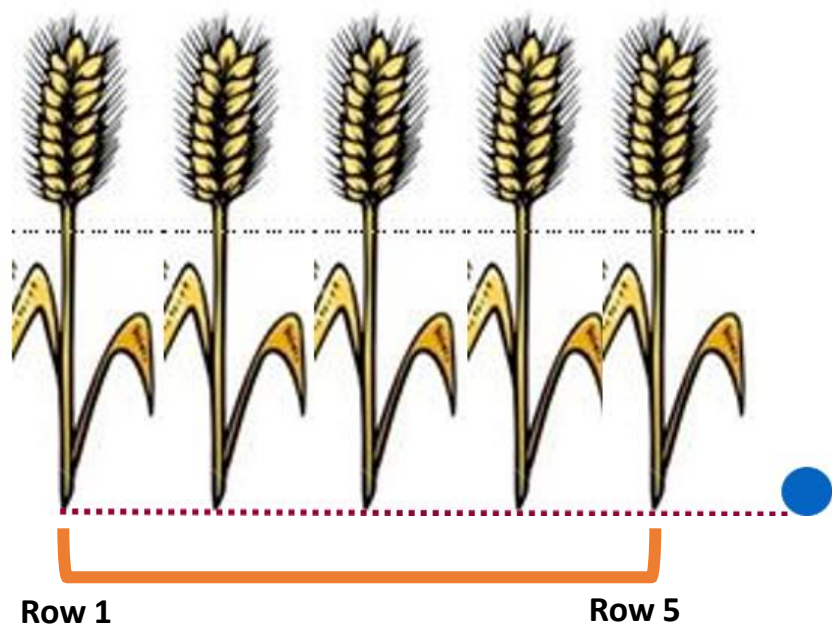
### 5. ROW SPACE MEASUREMENTS

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

UNIT 1

Feet & Tenths

UNIT 2





# Questionnaire Breakdown

## 6. Stage of maturity

6. STAGE OF MATURITY: (Circle one code for each unit)								
MATURITY STAGE	PRE-FLAG	FLAG OR EARLY	LATE BOOT OR FLOWER	MILK	SOFT DOUGH	HARD DOUGH	RIPE	BLANK
UNIT 1 Count Area	300 1	300 2	300 3	300 4	300 5	300 6	300 7	300 8
UNIT 2 Count Area	302 1	302 2	302 3	302 4	302 5	302 6	302 7	302 8
If Unit One Maturity is	1 or 2, <u>start counts with item 7</u>		3, 4, or 5, <u>start counts with item 8</u>			6 or 7, <u>start counts with item 8</u>		8. Substitute Unit Two when both 8, Go to item 10

When in doubt, always go lower!

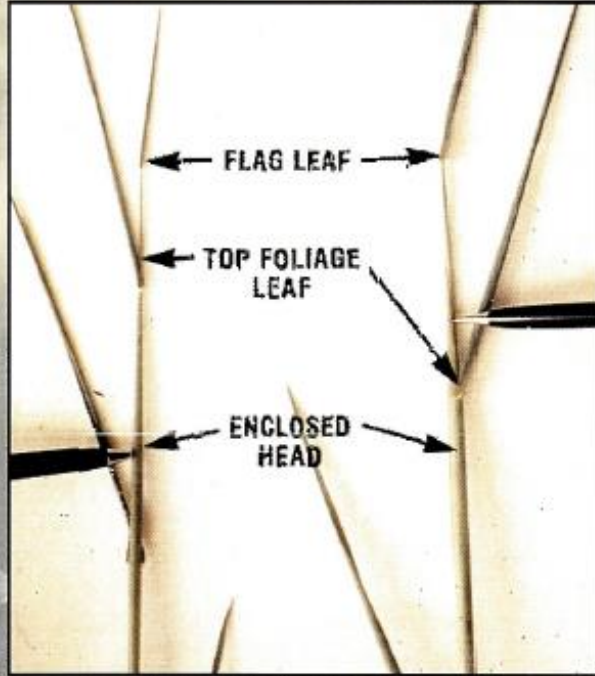


# Pre-Flag Stage

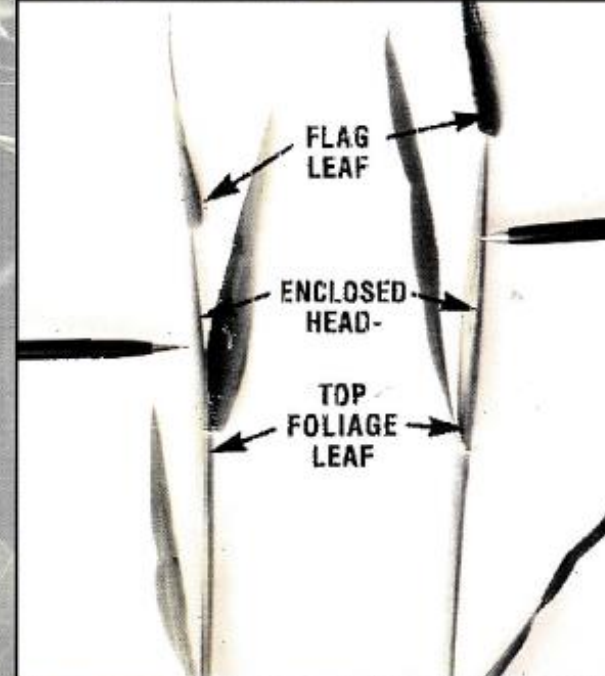


**5. CODE 1:** (Pre-flag Stage). There is no swelling in the stalks and no flag leaf present.

# Early and Late Boot Stages



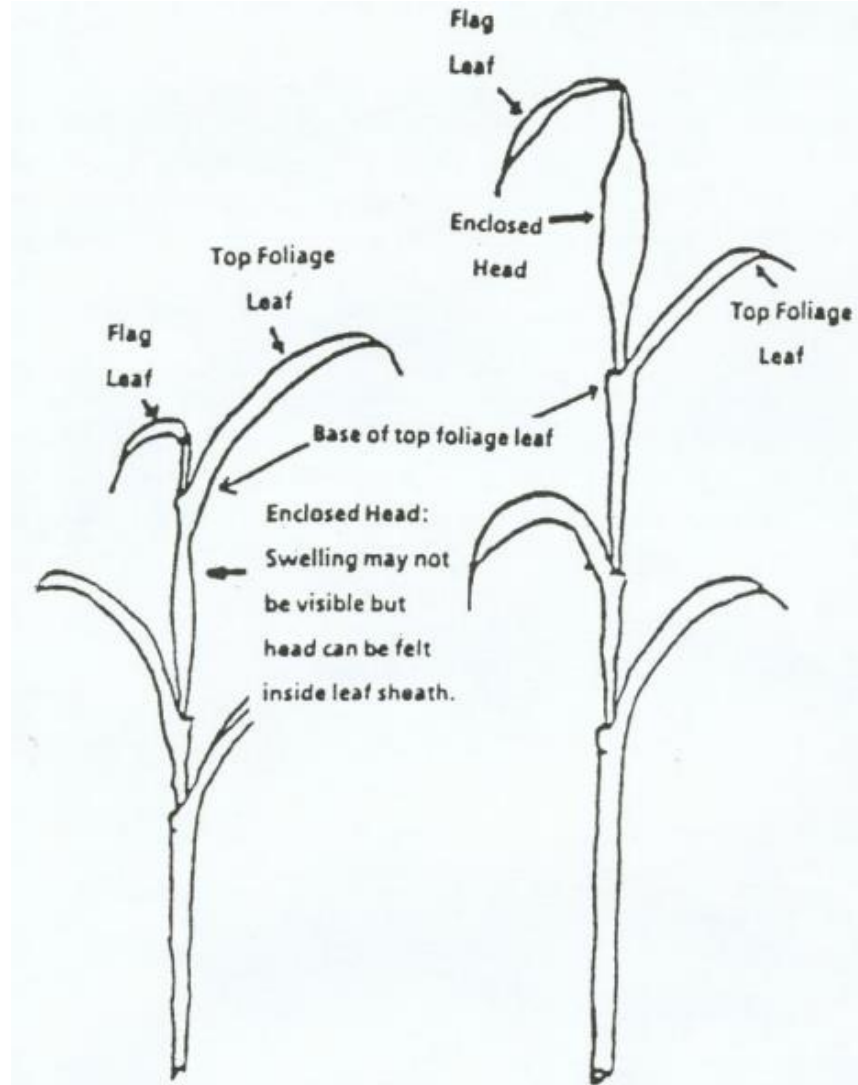
**6. CODE 2:** (Flag or Early Boot Stage). A flag leaf is present and the collar of the flag leaf has emerged above the top foliage leaf. The enclosed head is located below the collar of the top foliage leaf.



**7. CODE 3:** (Late Boot or Flower Stage). The wheat is in the late boot stage from the point the swelling has occurred above the top foliage leaf until the head has emerged and will show a watery clear liquid turning milky white.



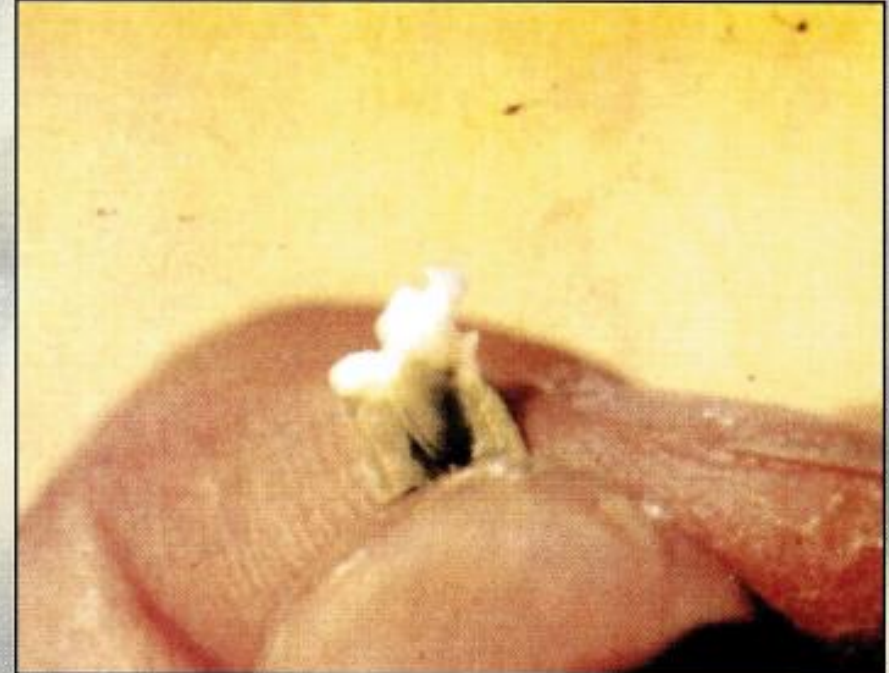
# Early vs Late Boot Stage



# Milk and Soft Dough Stages



**8. CODE 4: (Milk Stage).** The kernels are soft, moist, and filled with a milky liquid.



**9. CODE 5: (Soft Dough Stage).** The content of the kernels are soft and can be kneaded like dough.



# Hard Dough and Ripe Stages



**10. CODE 6:** (Hard Dough Stage). The grain is firm and can be dented with the thumbnail, but not easily crushed.



**11. CODE 7:** (Ripe Stage). The grain is hard and breaks into fragments when crushed.



# Questionnaire Breakdown

7. Number of stalks (stems) in row

8. Number of heads in LATE BOOT

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

9. a) Number of EMERGED HEADS on all stalks

b) Number of DETACHED HEADS in unit

9.	a. Number of emerged heads on all stalks	331	332	333	334	335	336
	b. Number of detached heads in unit.....	341	.....	344			
	<u>(Complete 9b only on Final PRE-HARVEST VISIT)</u>						

# Questionnaire Breakdown

## 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:

- Code 1 or 2: SKIP items 11 and 12. Enter enumerator and supervisor numbers and sign name.
- Code 3, 4, or 5: Go to item 11.
- Code 6 or 7: Go to item 12.
- 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.

Lay out Units 1 and 2 as shown below:

Row 3				2nd Clip ←
Row 2			3rd Clip ←	
Row 1				1st Clip ←
	Count Area	Clip Area A	Clip Area B	

### 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

# Questionnaire Breakdown

## 11. Clip Areas (maturity code = 3, 4, or 5)

11. **WITHIN CLIP AREA:** Make clippings in the designated ROW within Clip Area 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

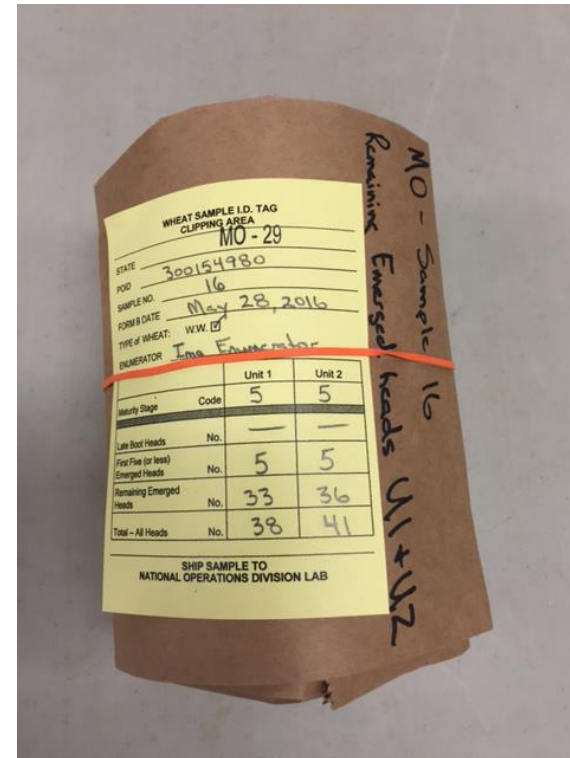
Step 3 -- MOW remaining stalks up to the half-way mark. Examine each stalk and determine which ones are emerged heads and late boot heads. CLIP the stalks 1/2 inch below the emerged head or at base of top foliage leaf for late boot heads. Place the remaining emerged heads in a large bag and the late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

# 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

Project Code 101 QID 12031 A-1 W OMB No. 0535-0088 Approval Expires 3/31/2023

**USDA** **FORM B** **NATIONAL AGRICULTURAL STATISTICS SERVICE**  
**WINTER WHEAT YIELD COUNTS** **2021**

Date: May 26, 2022

1. Has operator applied pesticides with organophosphorus content to the sample field?  
☐ Yes ☐ No  
If YES, enter latest application date \_\_\_\_\_ and name of pesticide \_\_\_\_\_

**UNIT LOCATION**

2. Number of paces along edge of field..... UNIT 1 + 30 UNIT 2  
3. Number of paces into field..... UNIT 1 + 30 UNIT 2

4. UNIT LOCATION CODE.....  
1 First visit to lay out unit  
2 Unit relocated this month  
3 Sample unit laid out previously  
Enter Code UNIT 1 305 UNIT 2 307  
When unit is Coded 3, go to item 6; otherwise go to item 5.

5. ROW SPACE MEASUREMENTS  
a. Measure distance from stalks in Row 1 to stalks in Row 5..... UNIT 1 301 UNIT 2 303 Feet & Tenths

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

MATURITY STAGE	PRE-FLAG	FLAG OR EARLY BOOT	LATE BOOT OR FLOWER	MILK	SOFT DOUGH	HARD DOUGH	RIPE	BLANK
UNIT 1 Count Area	300	300	300	300	300	300	300	300
UNIT 2 Count Area	302	302	302	302	302	302	302	302

If Unit One Maturity is 1 or 2, start counts with item 7  
3, 4, or 5, start counts with item 8  
6 or 7, start counts with item 8  
8. Substitute Unit Two when both 8. Go to item 10

**COUNTS WITHIN UNITS**

	Row 1	Row 2	Row 3	Row 1	Row 2	Row 3
7. Number of stalks (stems) in row.....	311	312	313	314	315	316
8. Number of heads in LATE BOOT.....	351	352	353	354	355	356
9. a. Number of emerged heads on all stalks	331	332	333	334	335	336
b. Number of detached heads in unit.....	341			344		

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

**WHEAT SAMPLE I.D. TAG**  
**CLIPPING AREA**

STATE NEBRASKA

POID 887025580

SAMPLE NO. 316

FORM B DATE 5/26

TYPE of WHEAT: W.W. ☒

ENUMERATOR John Smith

	Unit 1	Unit 2
Maturity Stage Code	3	3
Late Boot Heads No.	17	18
First Five (or less) Emerged Heads No.	5	5
Remaining Emerged Heads No.	10	10
Total - All Heads No.	32	33

**SHIP SAMPLE TO**  
**NATIONAL OPERATIONS DIVISION LAB**

Data on lower portion of Yellow ID tag comes from the Clip Area on the back of Form B

# Forms & ID Tags Relationship (Clip)

The C-1 form is filled out in the National Laboratory based on the ID tag date. All dates need to match

**FORM B WINTER WHEAT YIELD COUNTS 20YY**

YEAR 714 CROP, FORM, MMDD 0 5 2 7 R/S/D 0050 POID 907900520 SAMPLE 0002

STATE OK UNIT 1 ROWS UNIT 2 PACES

**WHEAT SAMPLE I.D. TAG CLIPPING AREA**

STATE OKLAHOMA POID 907900520 SAMPLE NO. 43 FORM B DATE 05-27 TYPE OF WHEAT: W.W. (✓) ENUMERATOR Harris 397

**FORM C-1 WINTER WHEAT YIELD SURVEY NATIONAL LABORATORY DETERMINATIONS 20YY**

YEAR 714 CROP, FORM, MMDD 0 5 2 7 R/S/D 0050 POID 907900520 SAMPLE 0002

STATE OK





# 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.

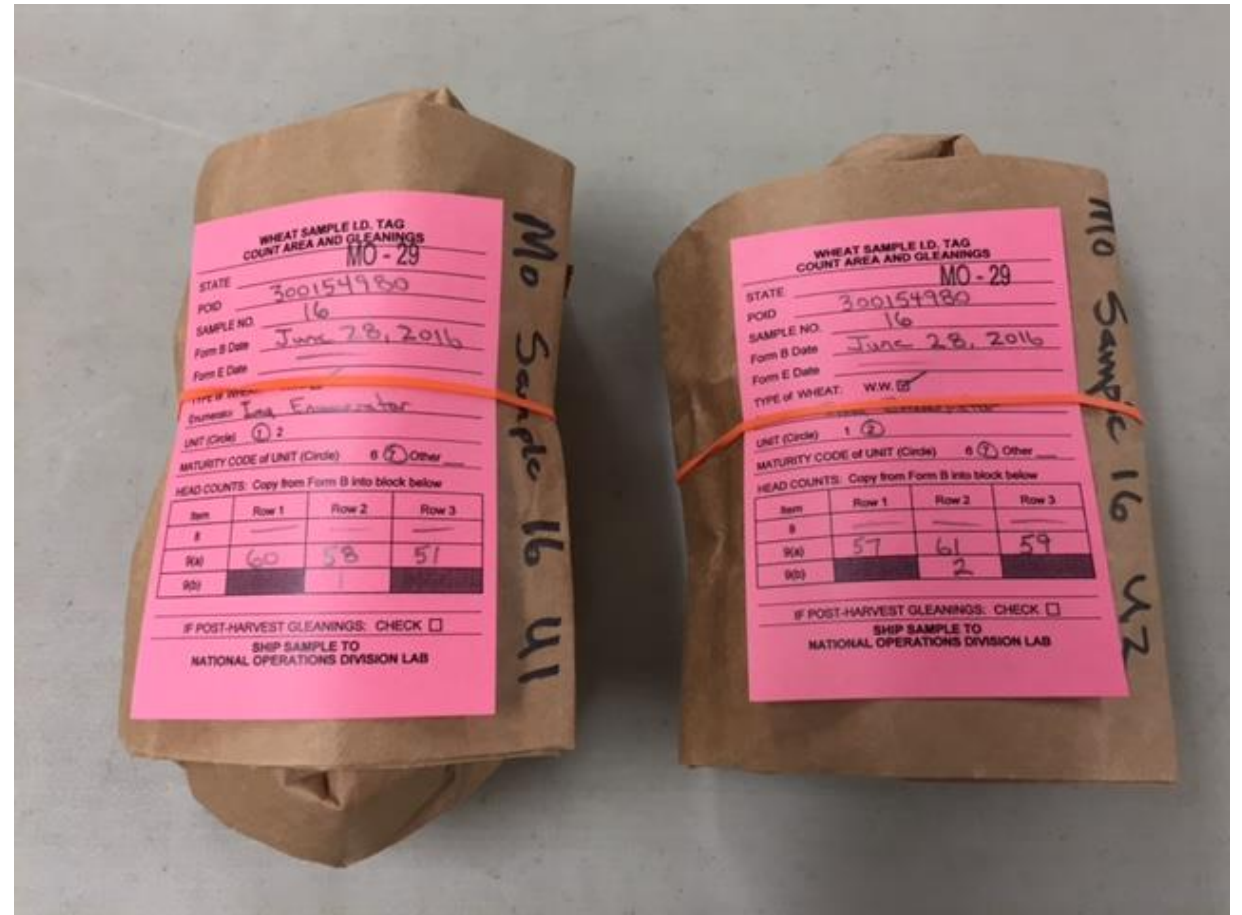
Step 4 -- Pick up all Detached Heads on ground in unit counted in item 9b. Place in bag with clipped heads.

Copy recorded heads from items 8 and 9 of Form B onto PINK I.D. Tags. Date and 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

Project Code 101 QID 120031 A-1 W OMB No. 0535-0088 Approval Expires 3/31/2023

**USDA** **FORM B** **NATIONAL AGRICULTURAL STATISTICS SERVICE**  
**WINTER WHEAT YIELD COUNTS**  
**2021**

July 5, 2022

1. Has operator applied pesticides with organophosphorus content to the sample field?  
☐ Yes ☐ No  
If YES, enter latest application date \_\_\_\_\_ and name of pesticide \_\_\_\_\_

**UNIT LOCATION**

2. Number of paces along edge of field.....  
3. Number of 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 \_\_\_\_\_  
When unit is Coded 3, go to item 6; otherwise go to item 5.

5. ROW SPACE MEASUREMENTS  
a. Measure distance from stalks in Row 1 to stalks in Row 5..... Feet & Tenths 301 \_\_\_\_\_ 303 \_\_\_\_\_

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

MATURITY STAGE	PRE-FLAG	FLAG OR EARLY BOOT	LATE BOOT OR FLOWER	MILK	SOFT DOUGH	HARD DOUGH	RIPE	BLANK
UNIT 1 Count Area	300	300	300	300	300	300	300	300
UNIT 2 Count Area	302	302	302	302	302	302	302	302

If Unit One Maturity is 1 or 2, start counts with item 7. 3, 4, or 5, start counts with item 8. 6 or 7, start counts with item 8. 8. Substitute Unit Two when both 8, Go to item 10

**COUNTS WITHIN UNITS**

	UNIT 1			UNIT 2		
	Row 1	Row 2	Row 3	Row 1	Row 2	Row 3
7. Number of stalks (stems) in row.....	311	312	313	314	315	316
8. Number of heads in LATE BOOT.....	361	362	363	364	365	366
9. a. Number of emerged heads on all stalks	331	332	333	334	335	336
b. Number of detached heads in unit.....	341			344		

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

**WHEAT SAMPLE I.D. TAG**  
**COUNT AREA AND GLEANINGS**

NEBRASKA  
(Circle Your State)  
CO IL KS MO MT NE OH OK TX WA

POID 887025580

SAMPLE NO. 36

Form B Date 7/05

Form E Date \_\_\_\_\_

Enumerator \_\_\_\_\_

UNIT (Circle) 1 2

MATURITY CODE of UNIT (Circle) 6 7 Other \_\_\_\_\_

HEAD COUNTS: Copy from Form B into block below

Item	Row 1	Row 2	Row 3
8	-----	-----	-----
9(a)	56	55	53
9(b)			

Total Heads - Total all Rows in this Unit \_\_\_\_\_

IF POST-HARVEST GLEANINGS: CHECK ☐

**SHIP SAMPLE TO**  
**NATIONAL OPERATIONS DIVISION LAB**

Pink ID tag is updated this year. The bottom asks for a total head count

# Forms & ID Tags Relationship (Preharvest)

**USDA FORM B WINTER WHEAT YIELD COUNTS 20YY**

YEAR 714 CROP, FORM, MMDD 0 5 2 7 R/S/D 0050 POID 907900520 SAMPLE 0002

STATE OK UNIT 1 ROWS UNIT 2 PACES

**USDA FORM C-1 WINTER WHEAT YIELD SURVEY NATIONAL LABORATORY DETERMINATIONS 20YY**

YEAR 714 CROP, FORM, MMDD 0 5 2 7 R/S/D 0050 POID 907900520 SAMPLE 0002

STATE OK

**WHEAT SAMPLE I.D. TAG COUNT AREA AND GLEANINGS**

STATE KANSAS

POID 907900520

SAMPLE NO. 2

Form B Date 05-27

Form E Date



# Questionnaire Breakdown

## 13. Supervisor assistance

13. Did a supervisor assist you in working this sample? ☐ YES ☒ NO

ENUMERATOR: John Doe

UPS Tracking Number: 130721-AN8796147549

(For samples sent to National Laboratory)

Enumerator Number	390 <b>20999</b>
Supervisor Number	391 <b>20888</b>
Evaluation	393



- 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



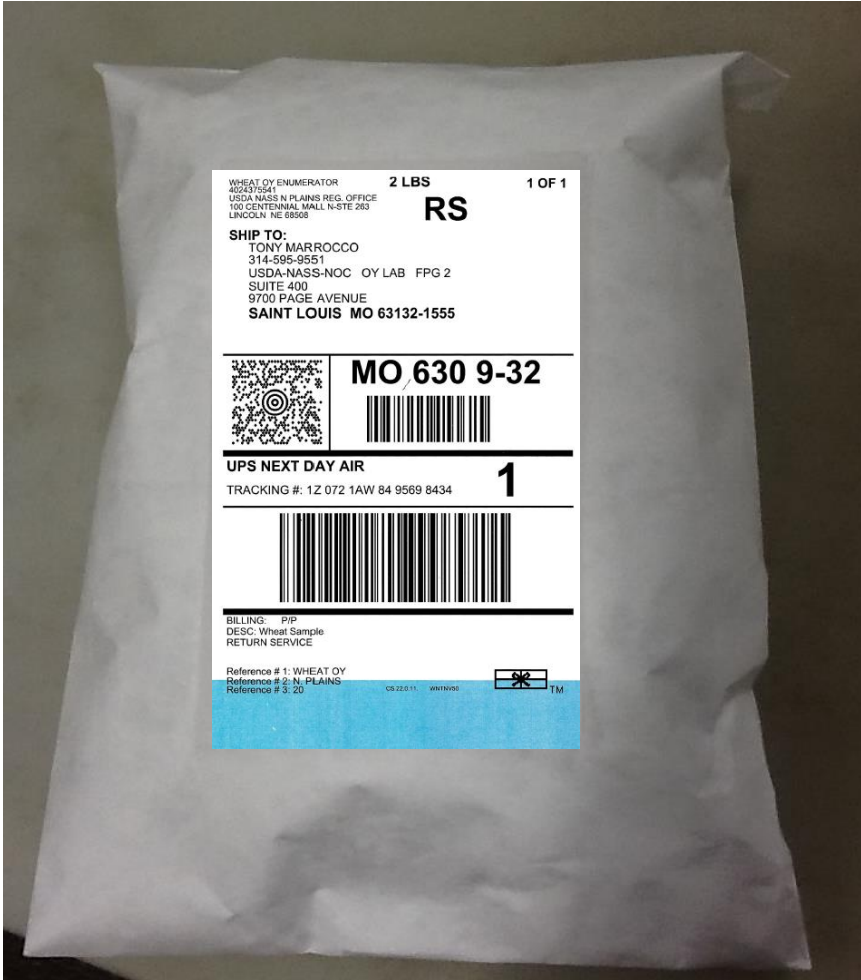
# Shipping to St Louis

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- The labels only have a blue banner printed on them
- Next day air delivery



# 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



# Friendly Reminders

- ✓ Never take iPad into the field
- ✓ 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 & **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 striped** UPS labels to ship to the National Lab in St. Louis, Missouri



United States Department of Agriculture  
National Agricultural Statistics Service



## CAPI Form B

# Winter Wheat Yield Counts on the iPad





# CAPI: Form B

- Form B available for data entry in CAPI
- **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 1<sup>st</sup> day of data collection through the second day of the month
- Enumerators should promptly enter data into CAPI Production
  - Exception would be Final Pre-Harvest sample outside of survey period
  - Outside of survey period hold paper questionnaire and enter when next survey period starts



# CAPI: WOY Assignment Listing

?

INF	CMT	COF	MAP	ST	CTY	Survey Date (will change each month)	Sub	OP DOM	SEQ. NUM	DCMS	Name	
FORM B WHEAT YIELD COUNTS - WINTER WHEAT OY-JULY 2018-07-01 ( 01)												
<input type="checkbox"/>				48	117	887036200*	1	1	0	10	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	2	0	11	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	3	0	12	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	4	0	13	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	5	0	14	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	6	0	15	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	887036200*	1	7	0	16	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	937023070*	1	1	0	30	420	DOE FARMS INC JOHN DOE
<input type="checkbox"/>				48	117	937023070*	1	2	0	31	420	DOE FARMS INC JOHN DOE

\* = Multi-Sample Operation

SEQ. NUM = Sample #





# CAPI: 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.
- CAPI Edits
  - Missing field work date / status code submission block
  - Enumerator / Supervisor evaluation codes are programmed
  - Conditional edits built into the form to find errors
    - Unit location, row space measurement, maturity code, etc.



# CAP: Field Work Date



United States Department of Agriculture  
National Agricultural Statistics Service

Sections	<
INTRODUCTION	✓
FIELD WORK DATE	
PESTICIDES	
UNIT LOCATION	
COUNTS WITHIN UNITS	
ENUMERATOR	

## FIELD WORK DATE

Please respond to continue.

Please Select The Sample Fieldwork Date:

\* Required Field

Month

\* Required Field

Day



# CAPL: Status Code



**United States Department of Agriculture**  
**National Agricultural Statistics Service**

## Sections



INTRODUCTION



FIELD WORK DATE



PESTICIDES



UNIT LOCATION



COUNTS WITHIN UNITS



ENUMERATOR

## ENUMERATOR

Please respond to continue.

**\* Required Field**

Select a Status Code

STATUS CODE





# CAP: Pesticides



United States Department of Agriculture  
National Agricultural Statistics Service

Help ?



## Sections



INTRODUCTION



FIELD WORK DATE



PESTICIDES

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

## PESTICIDES

## FORM B WHEAT YIELD COUNTS - WINTER WHEAT OY-MAY

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



Yes



No

If yes, enter the date and name of pesticide.

Latest Application Date

Name of Pesticide

04/01/2020

Thimet



# CAPL: Unit Location

Sections <

INTRODUCTION ✓

FIELD WORK DATE ✓

PESTICIDES ✓

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

UNIT LOCATION

Unit Location

Number of paces along edge of field

UNIT 1100+ 30

UNIT 2130

Number of paces into field

UNIT 150+ 30

UNIT 280





# CAPL: Row Space Measurement

Sections

INTRODUCTION

FIELD WORK DATE

PESTICIDES

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

UNIT LOCATION

Please respond to continue.

Unit Location Code

Please Select the Code below:

UNIT 1

\* Required Field

Select Unit 1 Location Code

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

UNIT 1

\* Required Field

Feet & Tenths

Please Select the Code below:

UNIT 2

\* Required Field

Select Unit 2 Location Code

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

UNIT 2

\* Required Field

Feet & Tenths



# CAPL: Counts for Maturity 1-2

Sections

INTRODUCTION

FIELD WORK DATE

PESTICIDES

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

COUNTS WITHIN UNITS

FORM B WHEAT YI

Counts within Units

Select one code for each unit.

UNIT 1 Count Area

1-PRE-FLAG

7. Number of stalks (stems) in row

Row 1	Row 2	Row 3
311 UNIT 1	312 UNIT 1	313 UNIT 1

8. Number of heads in LATE BOOT

Row 1	Row 2	Row 3
351 UNIT 1	352 UNIT 1	353 UNIT 1

9a. Number of emerged heads on all stalks

Row 1	Row 2	Row 3
331 UNIT 1	332 UNIT 1	333 UNIT 1

9b. Number of detached heads in unit

Row 2
341 UNIT 1



# CAPL: Counts for Maturity 3-7

Sections

INTRODUCTION

FIELD WORK DATE

PESTICIDES

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

COUNTS WITHIN UNITS

Counts within Units

Select one code for each unit.

UNIT 1 Count Area

3-LATE BOOT OR FLOWER

8. Number of heads in LATE BOOT

Row 1	Row 2	Row 3
351 UNIT 1	352 UNIT 1	353 UNIT 1

9a. Number of emerged heads on all stalks

Row 1	Row 2	Row 3
331 UNIT 1	332 UNIT 1	333 UNIT 1


9b. Number of detached heads in unit

Row 2
341 UNIT 1

# CAPL: Item Level Comments

- Item Code Level Comments

Row 3

333	UNIT 1	
-----	--------	---

333 X

C	←	D/K	=
7	8	9	+
4	5	6	-
1	2	3	x
.	0		÷
Add Comment			
Prev		Next	

Item Comments Close

Save Close



# CAPL: Enumerator Information

Sections <

INTRODUCTION ✓

FIELD WORK DATE ✓

PESTICIDES ✓

UNIT LOCATION ✓

COUNTS WITHIN UNITS ✓

ENUMERATOR

ENUMERATOR

Did a supervisor assist you in working this sample?  
  
☐ Yes   ☐ No

Enumerator Number	Supervisor Number	Evaluation
<input type="text"/>	<input type="text"/>	<input type="text"/>

UPS Tracking Number:



# CAPI: UPS Tracking Number

13. Did a supervisor assist you in working this sample? ☐ YES ☐ NO

ENUMERATOR: \_\_\_\_\_

UPS Tracking Number: 130721AW8796147549

(For samples sent to National Laboratory)

Enumerator Number	390
Supervisor Number	391
Evaluation	393

SHIP TO:  
TONY MARROCCO  
314-595-9551  
USDA-NASS-NOC OY LAB FPG 2  
SUITE 400  
9700 PAGE AVENUE  
SAINT LOUIS MO 63132-1555



UPS NEXT DAY AIR  
TRACKING #: 1Z 072 1AW 84 9569 8434

1

BILLING: P/P  
DESC: Wheat Sample  
RETURN SERVICE

Reference # 1: WHEAT OY  
Reference # 2: N-PLAINS  
Reference # 3: 20

CS 22.0.11 WMTN00



ENUMERATOR

Did a supervisor assist you in working this sample?

☐ Yes ☐ No

Enumerator Number	Supervisor Number	Evaluation
<input type="text"/>	<input type="text"/>	<input type="text"/>
UPS Tracking Number:	<input type="text"/>	





# CAPI Response Coding

Sections

INTRODUCTION

FIELD WORK DATE

PESTICIDES

UNIT LOCATION

COUNTS WITHIN UNITS

ENUMERATOR

ENUMERATOR

Response:

Completed

Respondent:

Other

Responded By (Enter respondent's name, if not the operator):

Respondent Mode:

Face-To-Face on iPad

Enumerator:

9998 98271

PREVIOUS

NEXT

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

Enumerator ID is preloaded

United States Department of Agriculture  
National Agricultural Statistics Service



United States Department of Agriculture  
National Agricultural Statistics Service



# **Objective Yield Lab Sample Packaging Standards**

2022

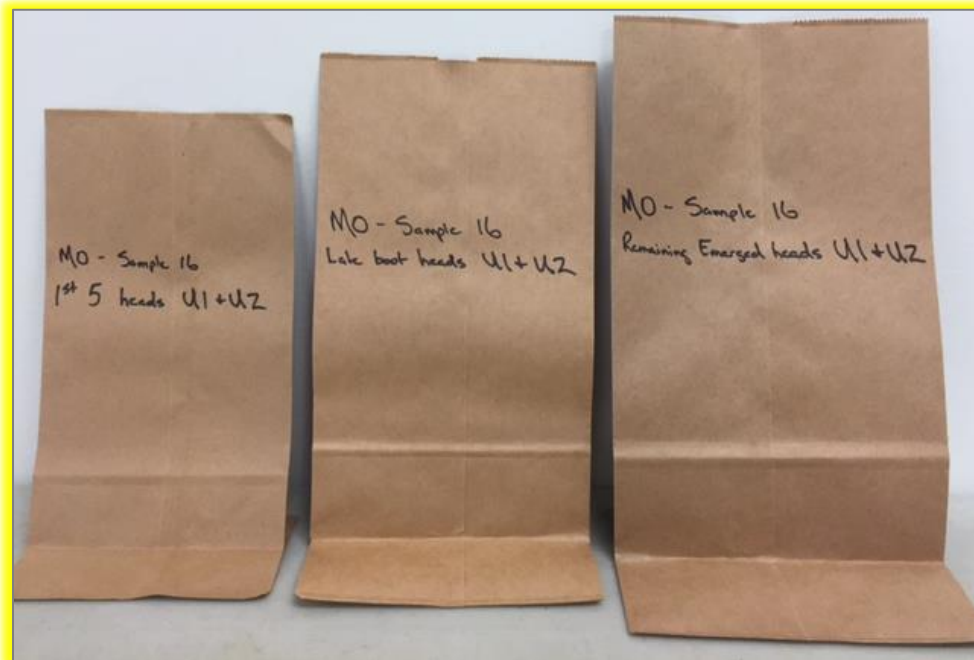
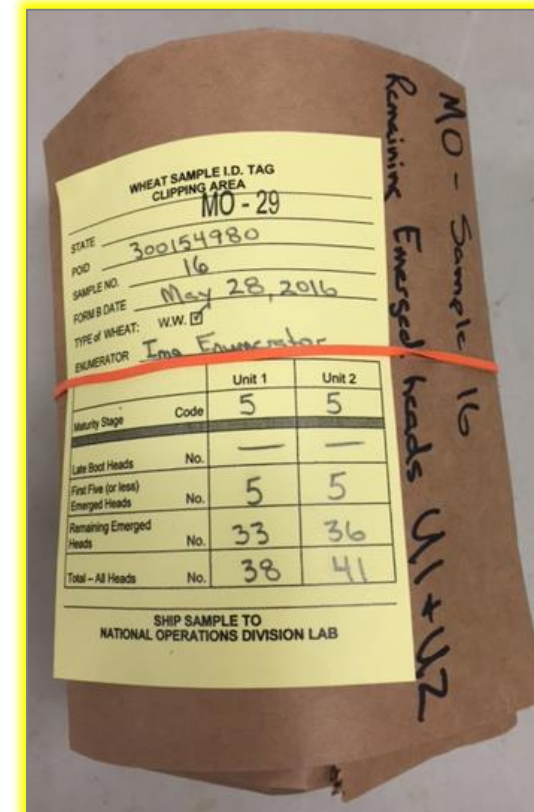


# Sample Packaging Standards – Wheat OY

- Clip Area Samples – Maturity Codes 3, 4, and 5
  - **STEMS MUST BE CUT TO ½ INCH**
  - The clip samples from both units should be combined within one set of paper bags
    - Small Bag – First 5 heads from both units
    - Medium Bag – Late boot heads from both units
    - Large Bag – Remaining emerged heads from both units
  - Crop ID Tag (YELLOW)
    - Ensure all information is **CORRECTLY** filled out on ID Tag
      - STATE, POID, SAMPLE NUMBER, DATE, MATURITY CODE, HEAD COUNTS
    - Attach to **OUTSIDE** of bag, using one rubber band (**NO STAPLES**)

# Sample Packaging Standards – Wheat OY

- Clip Area Samples – Maturity Codes 3, 4, and 5

MO - Sample 16  
Remaining Emerged heads U1+U2

WHEAT SAMPLE I.D. TAG  
CLIPPING AREA  
MO - 29

STATE 300154980  
POD 16  
SAMPLE NO. May 28, 2016  
FORM DATE  
TYPE OF WHEAT: W.W. ☒  
ENUMERATOR Ima Enumerator

	Unit 1	Unit 2
Maturity Stage	Code 5	5
Late Boot Heads	No. —	—
First Five (or less) Emerged Heads	No. 5	5
Remaining Emerged Heads	No. 33	36
Total - All Heads	No. 38	41

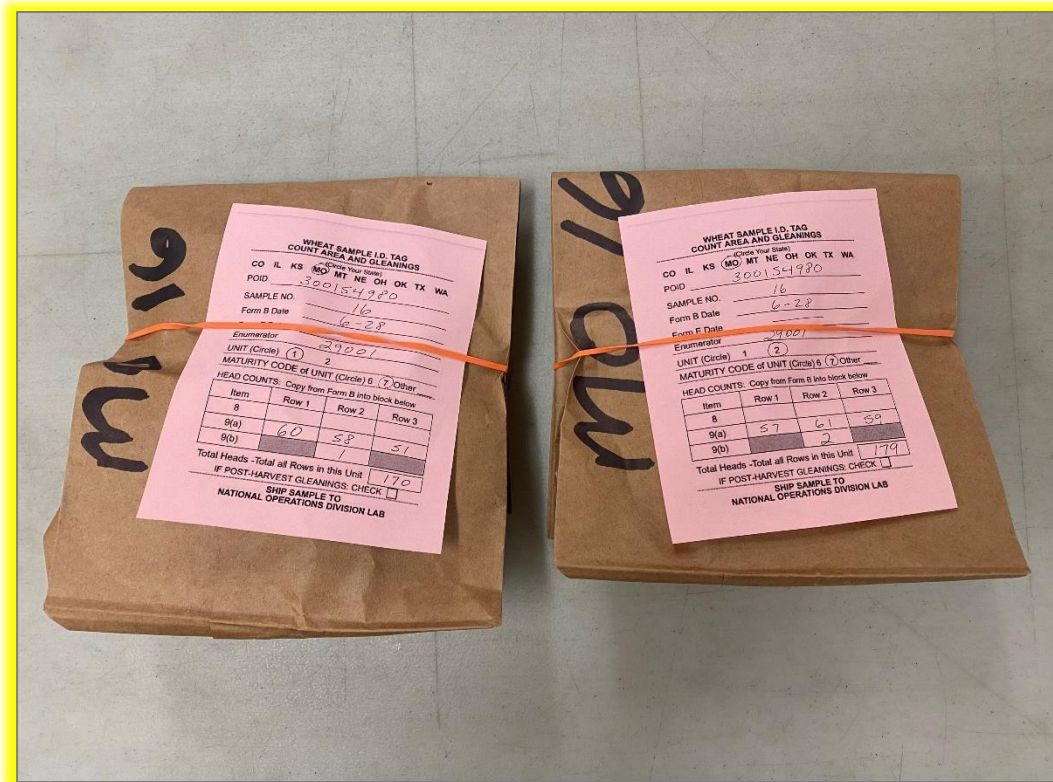
SHIP SAMPLE TO  
NATIONAL OPERATIONS DIVISION LAB

# Sample Packaging Standards – Wheat OY

- Count Area Samples – Maturity Codes 6 and 7
  - **STEMS MUST BE CUT TO ½ INCH**
  - Heads bagged **SEPARATELY** for Units 1 and 2
    - **PLEASE COUNT WHEAT HEADS ACCURATELY**
  - Crop ID Tags (PINK – ONE ID TAG PER UNIT)
    - Ensure all information is **CORRECTLY** filled out on each ID Tag
      - STATE, POID, SAMPLE NUMBER, DATE, MATURITY CODE, UNIT, HEAD COUNTS
      - Total the Heads for each unit.
    - Attach to **OUTSIDE** of each bag, using one rubber band per bag (**NO STAPLES**)
    - When only one unit is harvested, include the second ID Tag explaining the status of the missing unit

# Sample Packaging Standards – Wheat OY

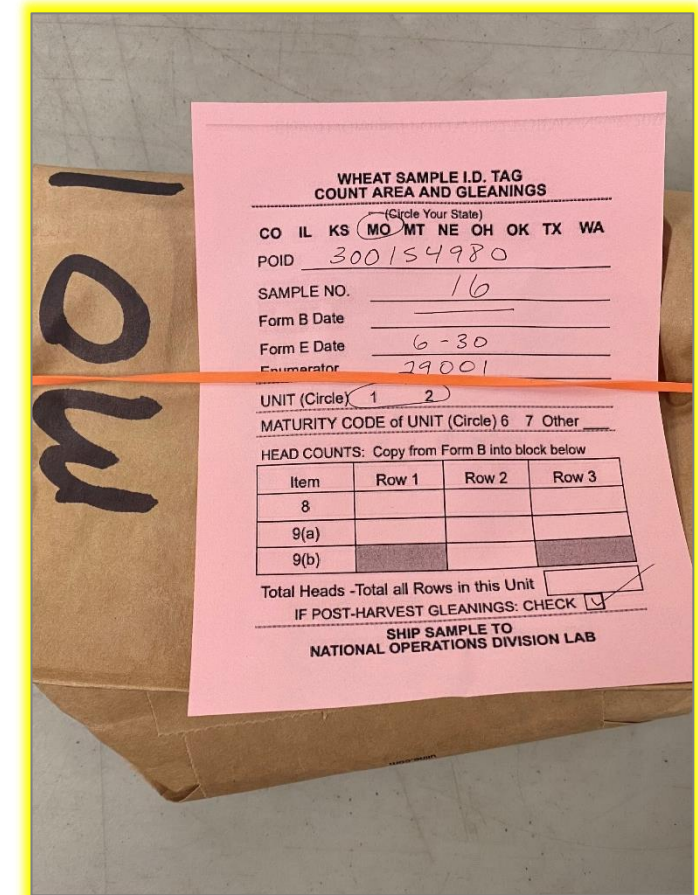
- Count Area Samples – Maturity Codes 6 and 7





# Count Area Samples – Maturity Codes 6 & 7

- Gleaning Samples
  - Remove as much debris as possible
    - Do not send dirt, mud, sticks, rocks, etc.
  - Check Gleanings box on ID Tag
  - Place ID Tag on the **OUTSIDE** of the paper bag, using one rubber band
  - Ship E Form in Tyvek with sample
    - **DO NOT SHIP THE E FORM SEPARATELY**



**WHEAT SAMPLE I.D. TAG  
COUNT AREA AND GLEANINGS**

(Circle Your State)

CO IL KS MO MT NE OH OK TX WA

POID 300154980

SAMPLE NO. 16

Form B Date \_\_\_\_\_

Form E Date 6-30

Enumerator 29001

UNIT (Circle) 1 2

MATURITY CODE of UNIT (Circle) 6 7 Other \_\_\_\_\_

HEAD COUNTS: Copy from Form B into block below

Item	Row 1	Row 2	Row 3
8			
9(a)			
9(b)			

Total Heads - Total all Rows in this Unit \_\_\_\_\_

IF POST-HARVEST GLEANINGS: CHECK ☒

SHIP SAMPLE TO  
NATIONAL OPERATIONS DIVISION LAB

# Sample Packaging Standards – Wheat OY



- **NO tape**
- **NO staples**
- **NO wrapping of any sort**
- **One sample per Tyvek**



# Common Problems from 2021 – Wheat OY

- Missing Maturity Codes
- Missing Form B Date
- Missing Sample Numbers on ID Tag
- Stems not clipped to ½ inch
- ID Tags placed inside bags



# Shipping

- All samples will be shipped to the NOD for processing
- Ship lab samples promptly upon completion of field work
- **SHIP EARLY AND OFTEN! DO NOT HOLD SAMPLES!**



United States Department of Agriculture  
National Agricultural Statistics Service



# **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
  - (4, 8, 12, 16, 20, 24, 28, 32, .....)






# Form E: Post Harvest Gleaning Form

Due to a paper shortage the Form E's will be white this year

Project Code 101 QID 120031E-W OMB No. 0535-0088: Approval Expires 7/31/2019

**USDA** **FORM E WINTER WHEAT YIELD SURVEY** **AGRICULTURE** **NATIONAL**  
**POST-HARVEST GLEANINGS** **COUNTS** **AGRICULTURAL**  
**2022** **STATISTICS**  
**SERVICE**

YEAR, CROP, FORM, MMDD	R/S/D	POID	SAMPLE	STATE
217 0 7 0 6	1201	300660430	0064	KS

  
20300660430010100289700003040390

UNIT 1  
ROWS  
PACES

UNIT 2

Date: July 6, 2022

**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



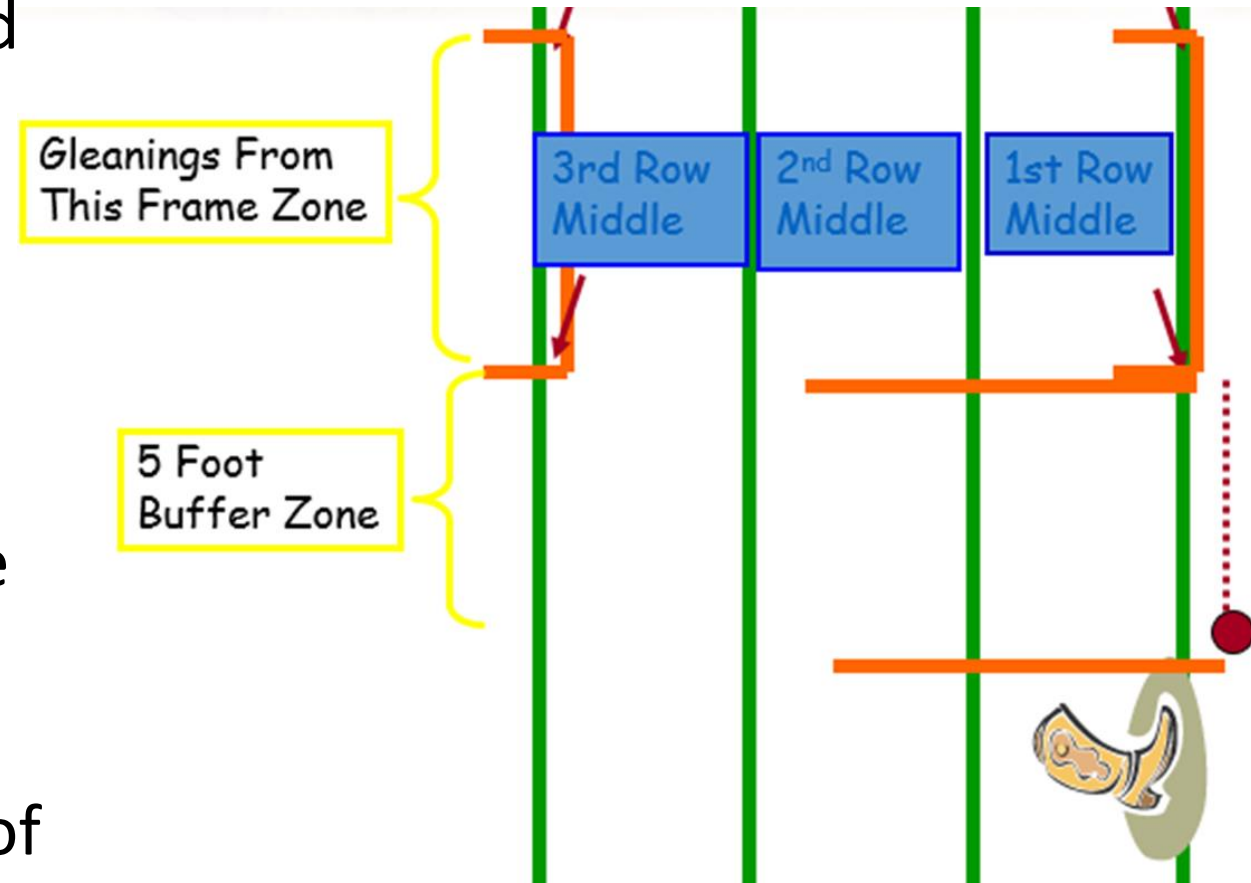
# Form E: Paces

UNIT LOCATION <i>(Diagram on reverse side)</i>		UNIT 1	UNIT 2
1. Number of paces along edge of field .....		162 + 5	192 + 5
2. Number of paces into field .....		239 + 5	269 + 5
3. Measure distance from stalks in Row 1 to stalks in Row 5 .....	Feet and Tenths	704 3.4	705 3.3

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

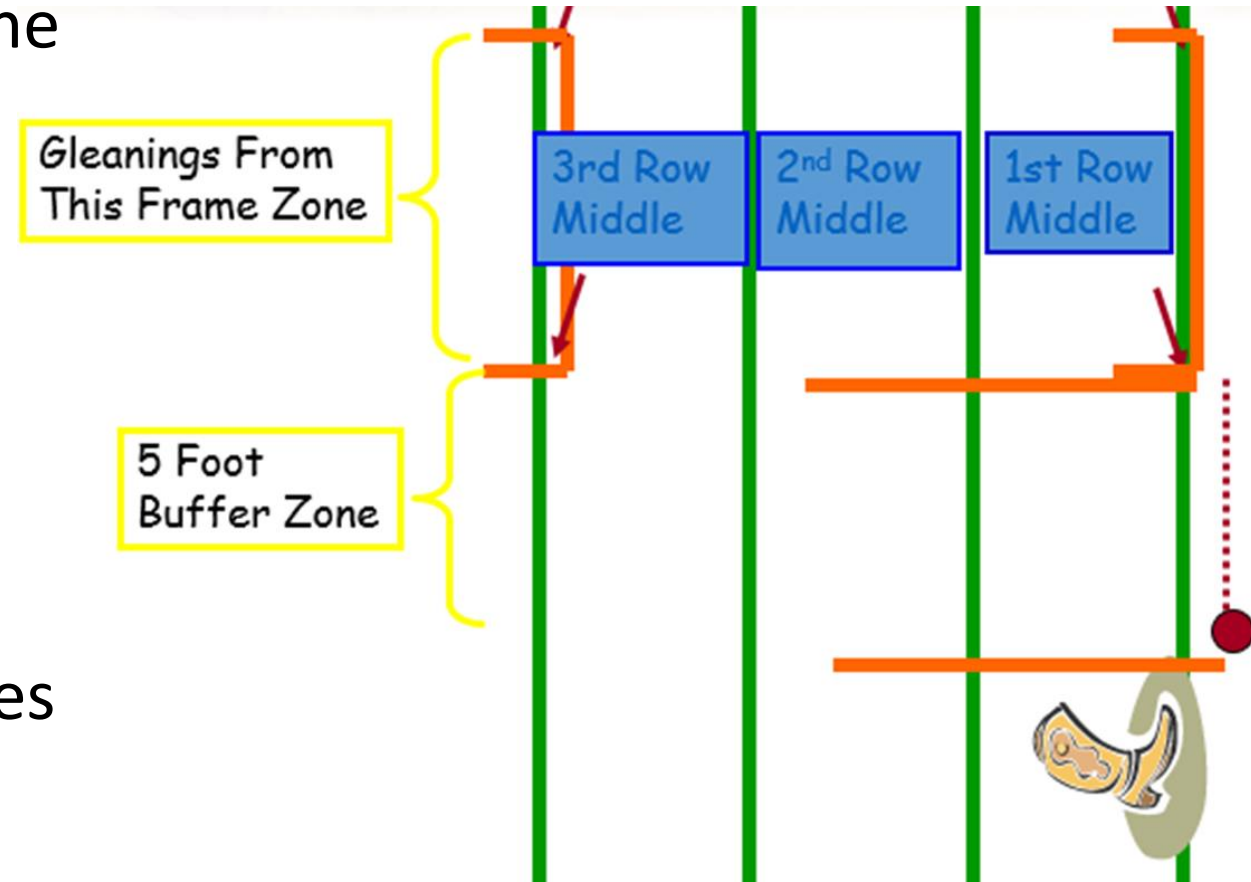
# Laying out the Gleaning Unit

- 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



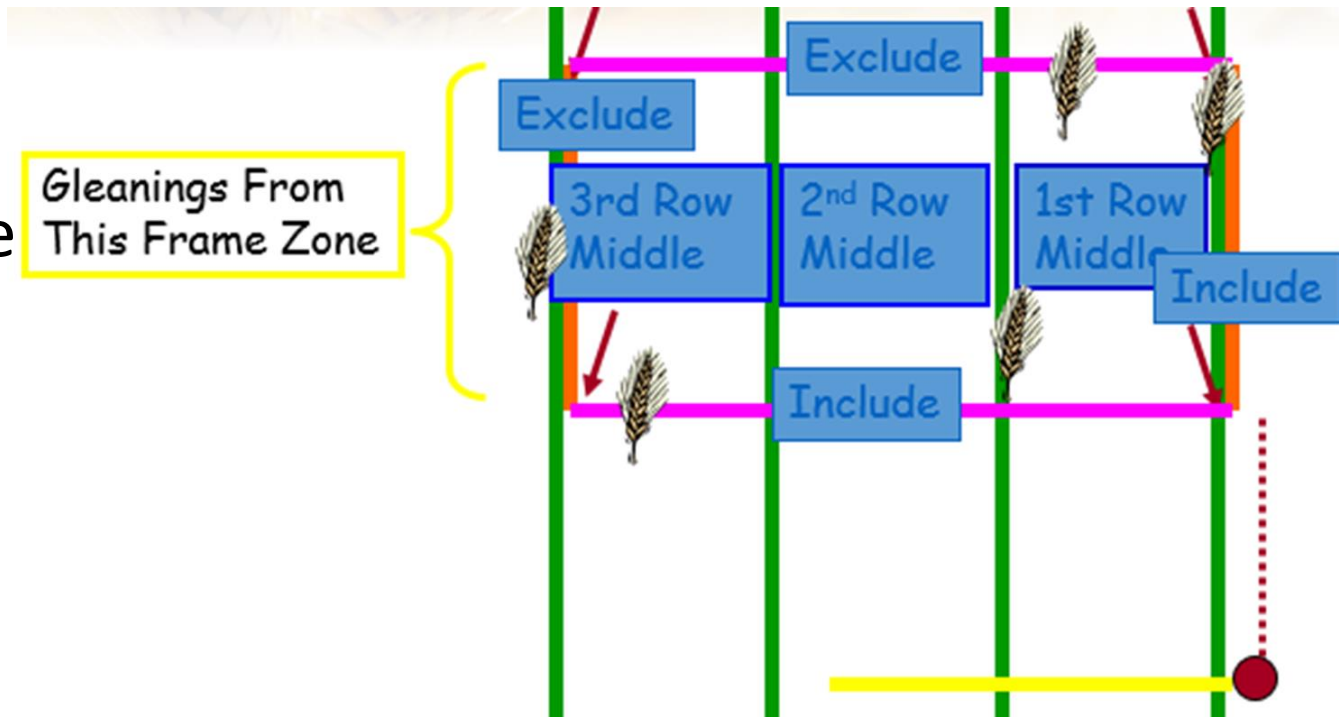
# Laying out the Gleaning Unit

- 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

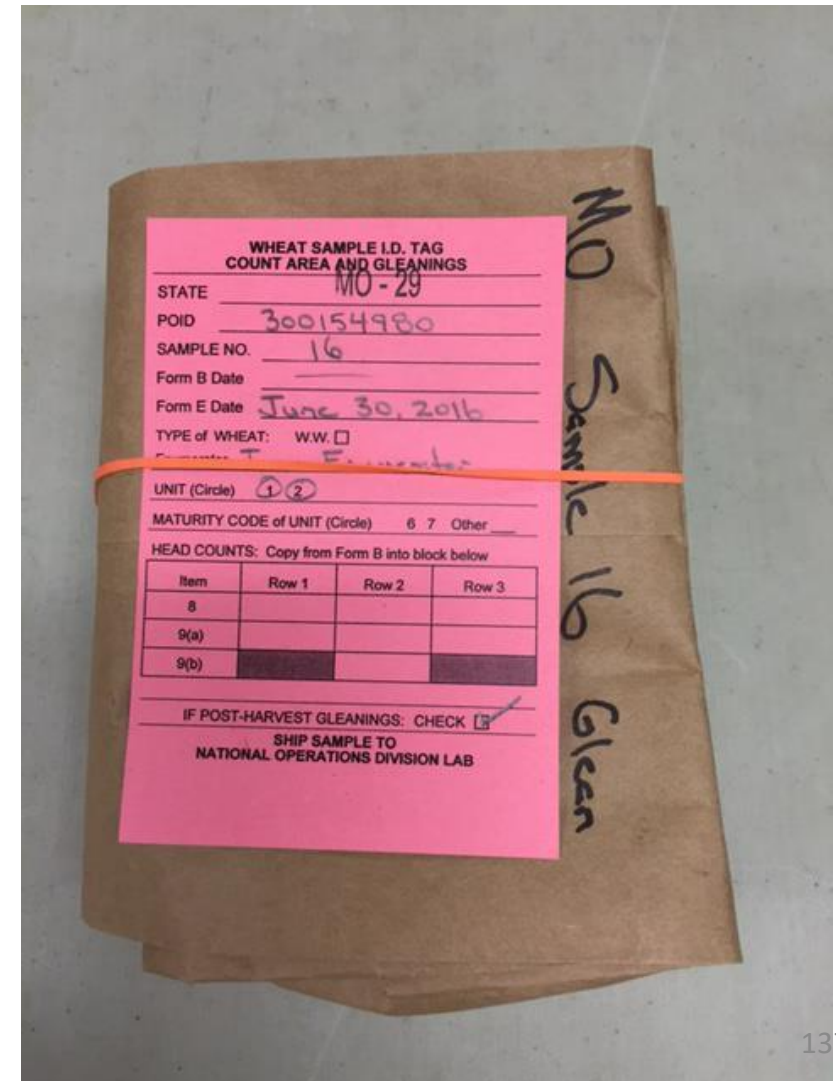
- Pick up attached stalks, detached stalks, heads, and loose grains within the boundaries
- **INCLUDE** the items above that are on the **two starting corner boundaries**
- **EXCLUDE** everything that are on the two remaining boundaries





# 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 .....	<div><input checked="" type="checkbox"/></div>	<div><input checked="" type="checkbox"/></div>
b. All partly threshed heads .....		
c. All loose wheat grains .....		

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.

\_\_\_\_\_

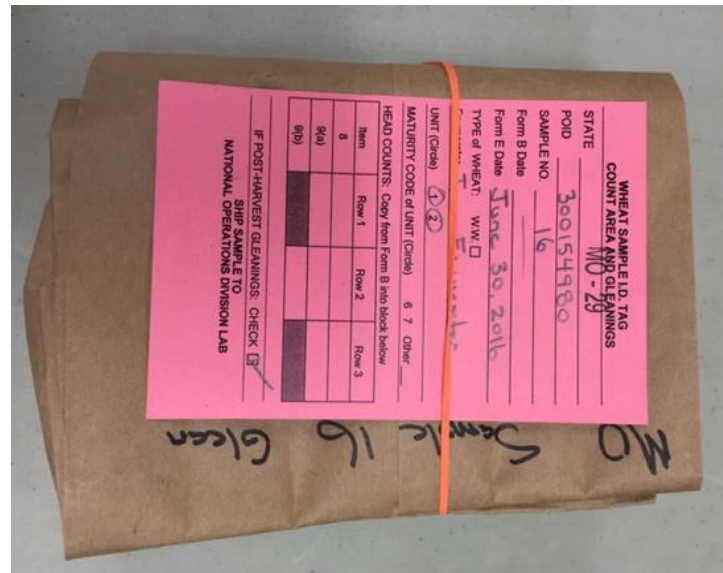
\_\_\_\_\_

6. Did a supervisor assist you in working this sample?      ☐ YES      ☒ NO

80 grains = 1 bushel 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

**WHEAT SAMPLE I.D. TAG  
COUNT AREA AND GLEANINGS**

(Circle Your State)  
CO IL **KS** MO MT NE OH OK TX WA

POID **300660430**

SAMPLE NO. **64**

Form B Date **7/2/2022**

Form E Date **7/6/2022**

Enumerator **98444**

UNIT (Circle) **1** 2

MATURITY CODE of UNIT (Circle ) 6 7 Other

HEAD COUNTS: Copy from Form B into block below

Item	Row 1	Row 2	Row 3
8			
9(a)			
9(b)			

Total Heads - Total all Rows in this Unit

IF POST-HARVEST GLEANINGS: CHECK ☒

**SHIP SAMPLE TO  
NATIONAL OPERATIONS DIVISION LAB**

Project Code 101 QID 120031E-W OMB No. 0535-0088 Approval Expires 7/31/2019

**USDA** **FORM E WINTER WHEAT YIELD SURVEY** **NATIONAL AGRICULTURAL STATISTICS SERVICE**  
**POST-HARVEST GLEANINGS** **2022**

YEAR, CROP, FORM, MMDD R/S/D POID SAMPLE STATE  
**217 0 7 0 6 1201 300660430 0064 KS**

**UNIT 1** **UNIT 2**  
**ROWS**  
**PACES**

Date: **July 6, 2022**

NOTE: The post-harvest field gleanings should be completed as soon after harvest as possible, and must be done within 6 days after harvest. If the sample field has been plowed, disked, or pastured since harvest, select an alternate field for gleanings if one is available in the tract or nearby field (in the sample operation) for list frame sample(s).

UNIT LOCATION (Diagram on reverse side)

1. Number of paces along edge of field

2. Number of paces into field

3. Measure distance from stalks in Row 1 to stalks in Row 5 Feet and Tenths

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

5. Was an alternate field used for making post-harvest observations?

6. Did a supervisor assist you in working this sample?

NOTE: Ship this Form E to the National Lab in the bag with the gleanings.

Attach completed ID tag to the paper bag(s) containing gleanings and place bag(s) and this Form E in a Tyvek envelope.

ENUMERATOR:

790  
791  
780

STATUS CODE



# Form E: Completed

<b>NOTE:</b> Ship this Form E to the National Lab in the bag with the gleanings	Enumerator Number	790 31999
	Supervisor Number	791 31888
	STATUS CODE	780 1

Attach completed ID tag to the paper bag(s) containing gleanings and place bag(s) and this Form E in a Tyvek envelope.

ENUMERATOR: John Doe

- 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 STRIPE** UPS label to ship to the National Lab
- Place E form and paper bag in a Tyvek envelope
- Attach a **BLUE STRIPE** 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





United States Department of Agriculture  
National Agricultural Statistics Service



# Due Dates and Shipping Review





# Due Dates - Kansas

Survey Date	Field Work Begins	Forms to be Completed	Field Work Ends	Last Day to Enter Form B in CAPI
May 1	April 23	All A forms** Even B forms	May 1	May 2
June 1	May 25	Remaining A forms All B forms	June 1	June 2
July 1	June 24	All B forms	July 1	July 2

\*\*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 - Nebraska

Survey Date	Field Work Begins	Forms to be Completed	Field Work Ends	Last Day to Enter Form B in CAPI
June 1	May 25	All A & B forms	June 1	June 2
July 1	June 24	Remaining A forms All B forms	July 1	July 2
August 1	July 25	All remaining forms	August 1	August 2

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 samples as soon as possible – Do Not Hold
  - Samples & E Forms to St. Louis, MO (UPS Blue Stripped)
    - St. Louis Blues hockey team

# Due Dates - continue

- Final Pre-harvest Sample
  - Complete during the regular survey period if maturity code 6 or 7
  - Complete between survey period if the farmer is going to harvest
    - No more than 3 days before farmer harvest
  - Hold Form B until CAPI, for the next month, opens and enter into CAPI
  - Ship sample to St. Louis immediately
- Gleaning
  - Complete within 3 days after farmer harvest
  - E Forms are sent to the Lab with the sample (UPS blue bannered)
  - Follow the packaging instructions



# Form A & B

- Form As:
  - Enter into CAPI
- Form Bs outside of monthly data collection timeframe:
  - Hold until CAPI, for the next month, opens and enter into CAPI





# 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 Next Day Air
  - Samples should be taken to an official UPS drop off location or UPS store
  - Also have the option for home pickup
    - See handout - 2022 Objective Yield UPS Procedures
- Record the tracking number for each sample:
  - Form B – paper version
  - Form B is your backup recording sheet

# 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!



## 2022 Wheat Objective Yield

### Field Enumerator Reference Sheet


Project Code 101

**Kansas**  
Sean Fedt (402) 470-8754

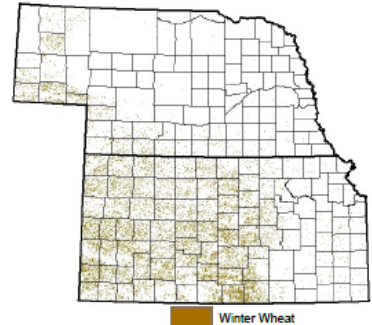
**Nebraska**  
Devin Van't Hof (402) 470-8770  
General Program Manager  
Devin Van't Hof (402) 470-8770

Survey reference dates and days of fieldwork can be found on the back page.

- Lab samples and Form E's will be shipped via UPS to the National Lab in St. Louis, MO.
- No Forms will be shipped to Lincoln, NE.



**SURVEY PURPOSE:**  
Field observations and lab samples collected during the Wheat Objective Yield Survey are used in USDA wheat yield forecasts during the crop season.



Winter Wheat

**FORM A AND GRID MAP**

- ☒ **NO FACE TO FACE DATA COLLECTION**
- ☒ Form A greatly simplified to expedite phone calls
- ☒ Explain survey purpose. Obtain permission to lay out the sample unit, make monthly counts, and clip a few heads.
- ☒ Verify name & address. Verify acres of wheat intended TO BE HARVESTED FOR GRAIN. Item 1 (filled in by office) as reported during the March Ag Survey. If incorrect, do not change but PLEASE WRITE DETAILED NOTES.
- ☒ The sample field for operations will be determined based on the field closest or furthest away from farmstead and cardinal or intercardinal direction provided in Form A.
- ☒ For operations with multiple samples, there will be a printed direction. The selected field is the field closest or furthest in the given direction
- ☒ Complete remainder of Form A.

*Interviewer's Manual (IM)*  
Pages 301-306

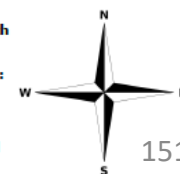
**WHAT IF.....?**

**Q) A respondent has multiple samples?**  
A) You will have multiple Sample Kit Envelopes and multiple Form A's. Complete the first four with the operator. Later, copy the inside of the completed Form A to all of the other Form A's. For example, data for the 5th sample in the field would be copied from the forms for the first sample; the 6th is the same as the 2nd, etc.

**Q) The respondent has NO wheat for grain harvest on their ENTIRE farm? (did not plant wheat OR did plant wheat but was/will be grazed out, cut for hay, abandoned, etc.)**  
A) Write detailed notes in CAPI for Form A.

**Cardinal Directions:**  
North (N), East (E), South (S), West (W).

**Field Selection examples:**  
CNE = Closest NorthEast field  
FS = Furthest South field



151



# Workshop Evaluation

- Please complete the workshop evaluation at the following link:
- <https://www.surveymonkey.com/r/WOYEval>

