Corn Objective Yield



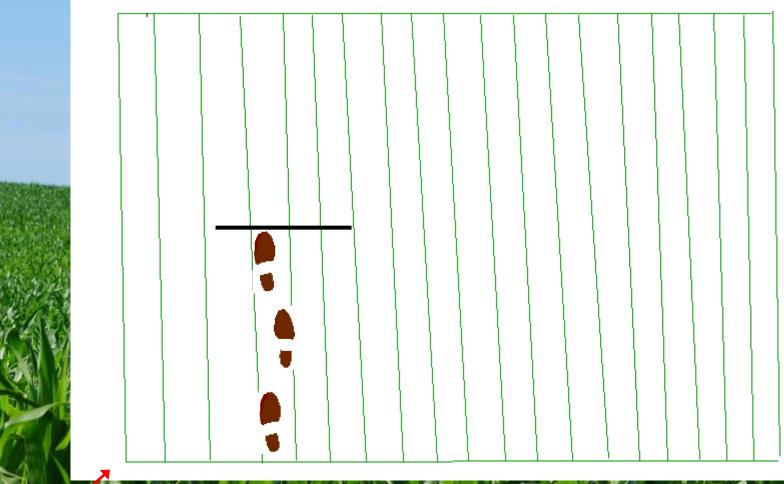
Agenda

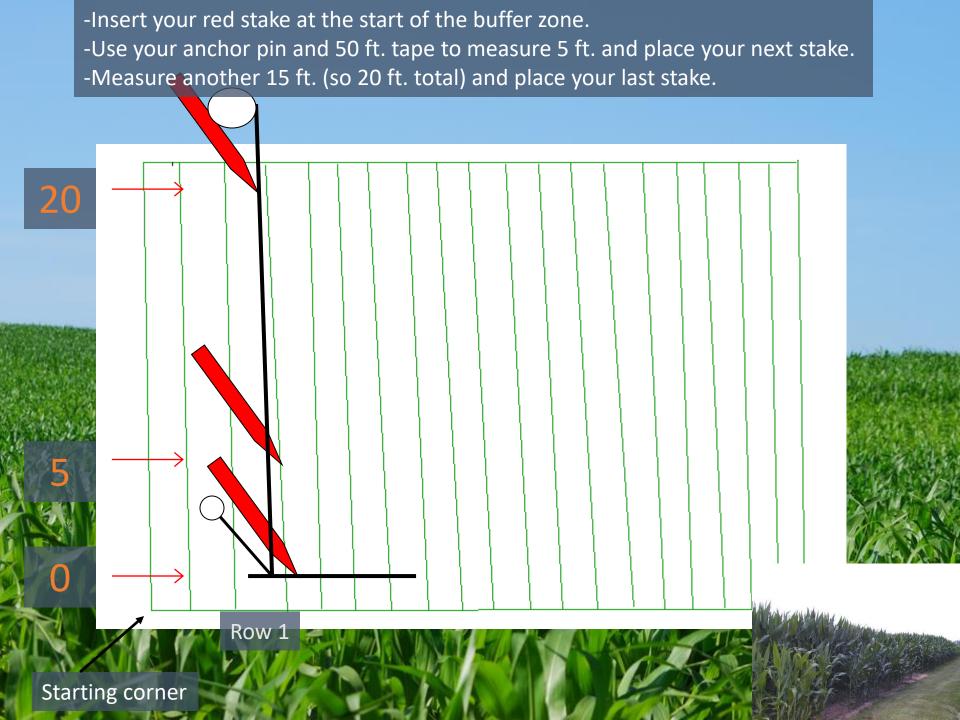
• Form-B • Pesticide Use Overview of plot layout • Unit Location Code Row Space Measurements • Twin Rows Maturity Codes & "Area Beyond Unit" Kernel row Length and diameter measurements Positioning and reading caliper Dent Stage Harvest Unit Stalk Counts & Volunteers

Pesticide Use

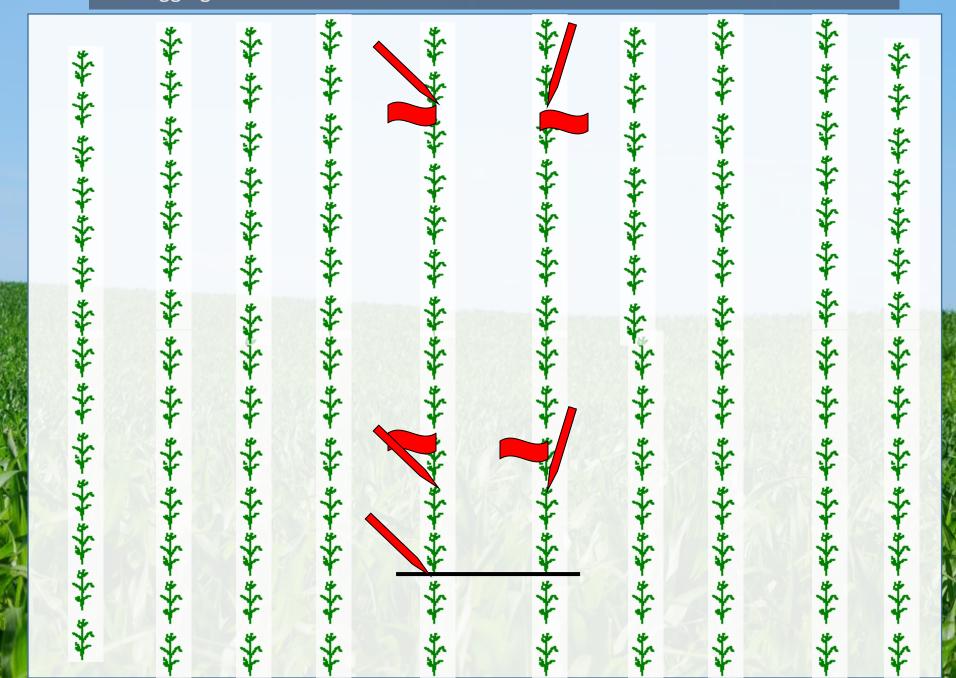
ı	Has operator applied pesticides with organophosphorus content to the sample field? Yes No If YES, enter latest application date and name of pesticide
	Organophosphorous pesticides listed in the interviewer's manual
	Field re-entry interval is three days for organophosphorus pesticides
	See the Interviewer's manual for symptoms of pesticide poisoning.
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After you have taken your last pace into the field you place your dowel rod or yard stick across the rows.





Tie flagging ribbon on the first and last stalks in the 15 ft. count area of each row.



Unit Location Code

1 = first visit

2 = relocated

3 = laid out previously

Unit 1	Unit 2
1	1

Aug 25 – Sep 1 code 1

Sep 24 – Oct 1 code 2 or 3

Oct 25 – Nov 1 code 2 or 3

1 First visit to lay out unit

2 Unit relocated THIS month

Sample unit laid out previously

Row Space Measurements

- Only measure row spaces when laying out a unit
 - For the first time OR relocating
 - First time: Unit Location Code 1
 - Relocating (original unit not found): Unit Location Code 2
- Return visits:
 - Unit is found: do not re-measure
 - Unit Location Code 3
 - Unit can't be found: re-measure
 - Unit Location Code 2

Use the anchor pin and 50 ft. tape to measure the distance from the middle of the plants in row 1 to the middle of plants in row 2. **** *** *** *** *** *** *** *** *** *** *** *** *** *** **** ** ** ** ** ** ** ** ** ****

Use the anchor pin and 50 ft. tape to measure the distance from the middle of the plants in row 1 to the middle of the plants in row 5 (across 4 row middles). *\chi +\chi **** **** **** *** *** *** *** *** *** *** ***

Twin Rows - Pages 407, 408, 508 of the Interviewer's Manual. Treat the twin rows as a single row. Measure from the center of twin row 1 to the center of twin row 2.

Maturity Codes

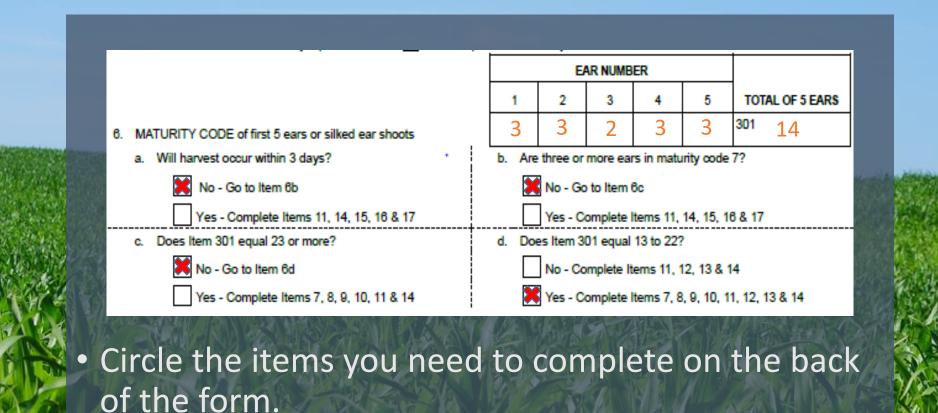
- The rest of the form depends on accurate maturity code designation.
- Husk the first 5 ears or silked ear shoots in the designated are (using TO BE) and examine for maturity.
 - TO BE for stalks with multiple ears.
 - TO BE = **T**op **O**dd, **B**ottom **E**ven

MATURITY CODES FOR ITEM 6							
For Month Use Area Beyond		Maturity Code					
Sept. 1 Oct. 1 Nov. 1	Unit 1, Row 2		5 = Dough 6 = Dent 7 = Mature				

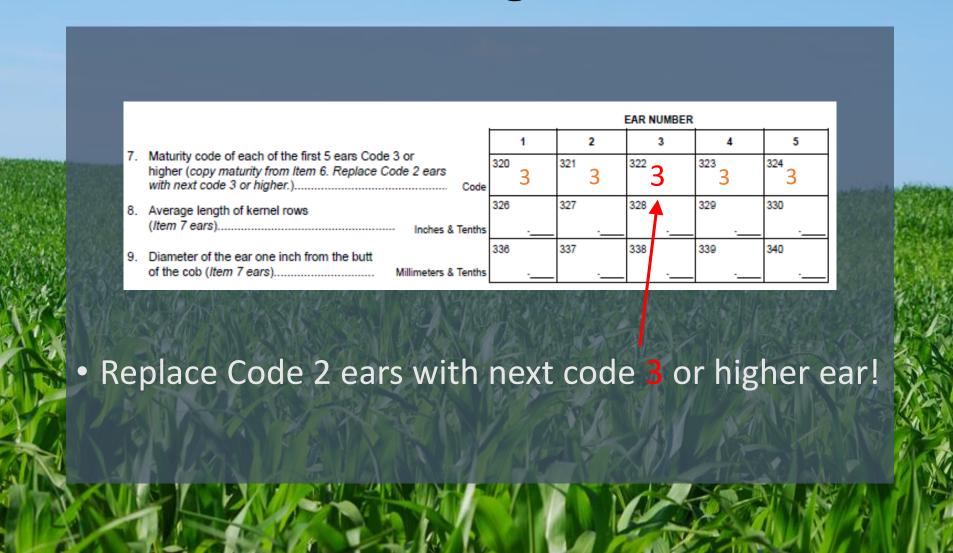




Follow Proper Sequence



Maturity code of first 5 ears code 3 or higher



Taking Measurements

6. Average length of kernel rows (Item 5 ears).....

Inches & Tenths

 Diameter of the ear one inch from the butt of the cob. (Item 5 ears).....

Millimeters & Tenths

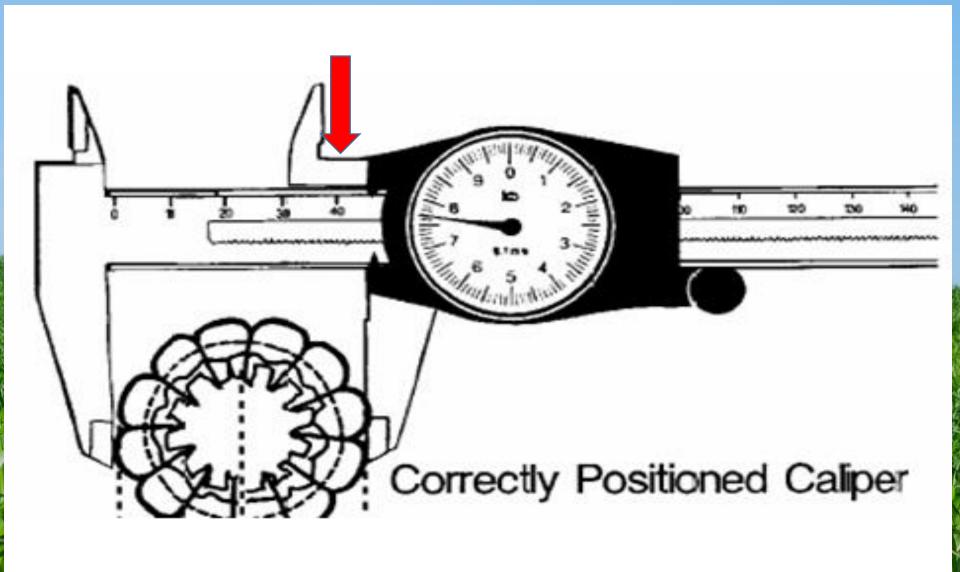
	EAR NUMBER							
	1	2	3	4	5			
	320 3	321	322 3	323	324 3			
,	³²⁶ 5. <u>1</u>	³²⁷ 5. <u>3</u>	³²⁸ 5. <u>4</u>	³²⁹ 5 . <u>4</u>	³³⁰ 5. <u>6</u>			
3	³³⁶ 47. <u>1</u>	³³⁷ 45. <u>3</u>	³³⁸ 55. <u>4</u>	³³⁹ 51. <u>4</u>	³⁴⁰ 53 .6			

- Kernel row length
 - Inches & Tenths
- Diameter of the ear
 - Millimeters & Tenths

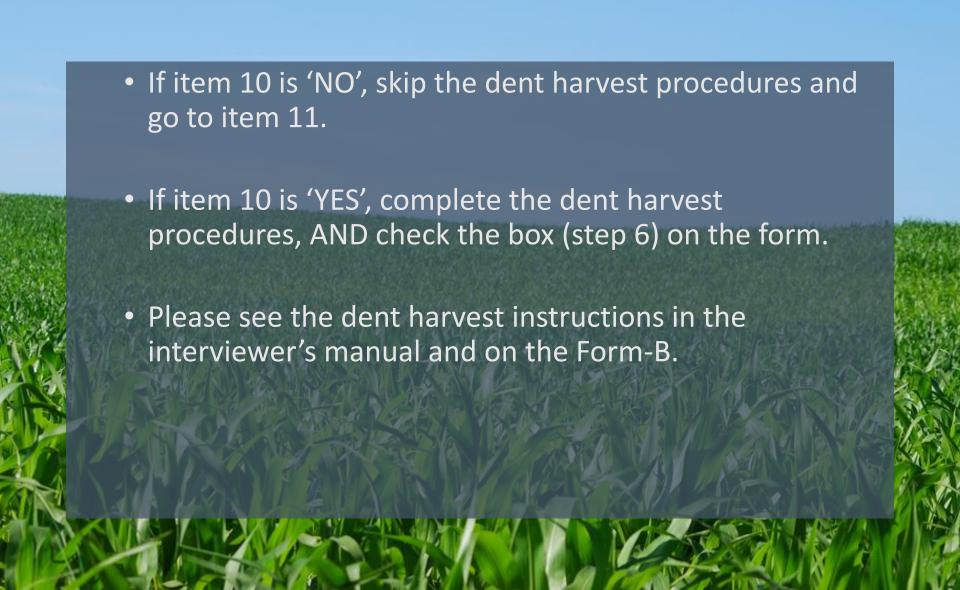




Reading is 47.7



Item 10 – dent harvest?

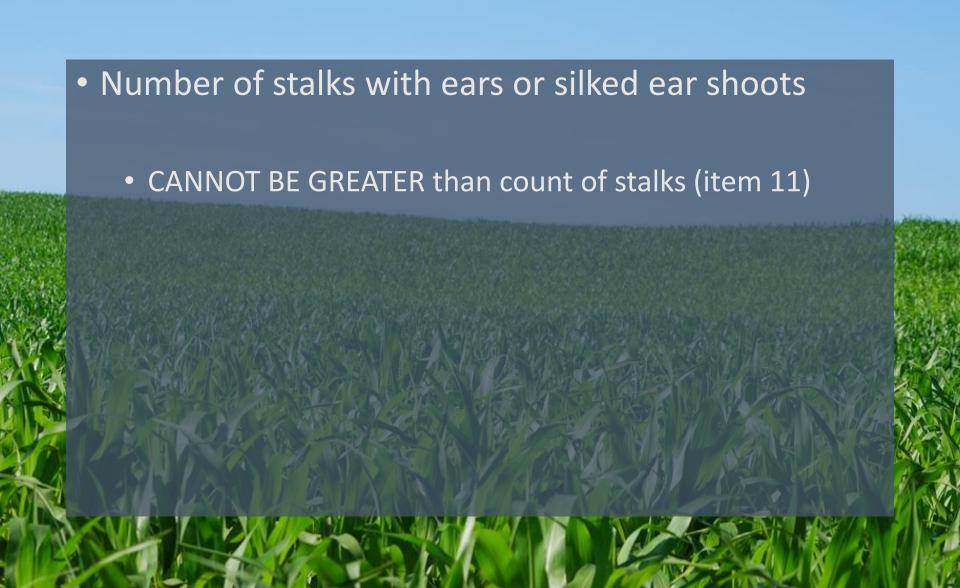


Counts in the 15 ft count area (Item 11)

- Count all stalks, regardless of size or condition
 - Don't count the tillers! (Look for brace roots)
- Volunteer stalks between Rows 1 and 2 are counted in Row 1 Total
- Volunteer stalks between Rows 2 and 3 are counted in the Row 2 total
- You can tie clumps together



Counts in the 15 foot count area (item 12)



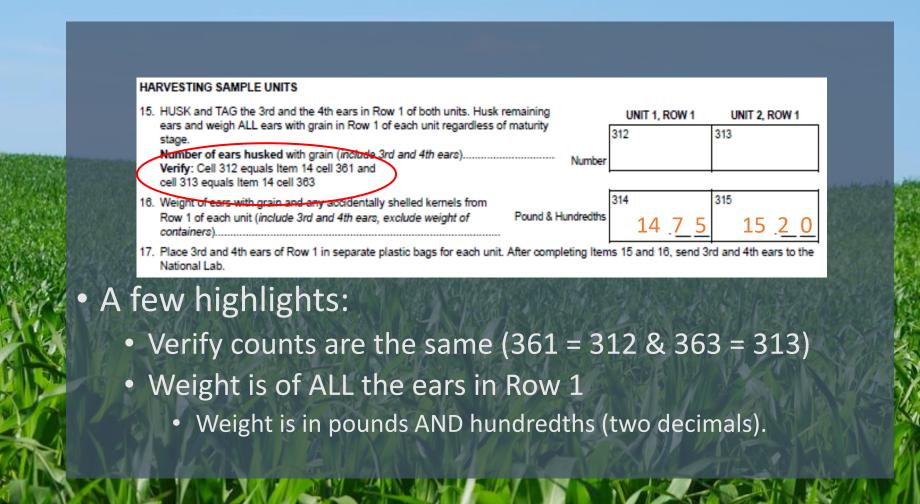
Counts in the 15 foot count area (Item 13)

 Number of ears and silked ear shoots Must equal or exceed item 12 (stalks with ears) Count multiple ears/silked ear shoots Count ears/silked ear shoots on tillers Don't count the tillers as stalks, just their ears

Counts in the 15 foot count area (Item 14)

- Number of ears with evidence of kernel formation
 - Code 3 (Blister) or greater
 - At least one kernel
 - Ears on the ground? Count 'em!
 - Must not exceed count of ears and ear shoots (Item 13)

Harvesting the Sample Units



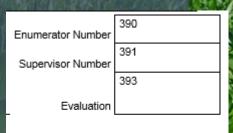
A few additional notes

UPS Shipping Tracking Number	ſ
for samples sent to the NOD:	

 Record the UPS Tracking Number when sending samples to the Lab in St. Louis.

ENUMERATOR COMMENTS: _____

- Comments! Leave notes for any unusual circumstances (submit them in CAPI)
- Enumerator Number!
- Evaluation leave blank
- Status Code See list



STATUS CODE 380

A few additional notes

- Enter all notes written on the Form-B in CAPI
- Write the date on each Form-B completed as well as the date it was entered in CAPI. These dates should be the same most of the time.
- Return each completed Form-B to the kit envelope.
 DO NOT send the Form-B anywhere.
- Be prepared to promptly answer any questions we may have.

Unusual/Valid Data

• Feel free to take a picture of unusual circumstances and e-mail them to your Supervisor, NC, & the OY Survey Stat.

• Data that is valid but generates a critical error may be eligible for a 'critical override'. However, HQ will not override an error unless good documentation is provided.

Unusual/Valid Data

• Example – A critical error is generated if a caliper measurement is < 20.0 mm. This is possible if the ear is very small and there is only 1 or 2 kernels on it. If this measurement is valid and you enter a note in CAPI and/or send a picture, HQ will likely override the error.

• For most corn samples, item 11 is in the 20's. Please enter a note in CAPI if the stalk count is < 20 or > 30.

• If item 11 is > 30, did you accidentally count the stalks in the buffer zone?

Questions?!?

Do you have any questions?

 Please make sure all your questions are answered before you start your field work.