



## FORM C-2 CORN FINAL PRE-HARVEST LAB DETERMINATIONS 2015



**NATIONAL  
AGRICULTURAL  
STATISTICS  
SERVICE**

YEAR, CROP, FORM, MMDD (1 - 7)	
<b>5 4 5</b> ___    ___    ___    ___	

Date Sample Received in Lab: \_\_\_\_\_

**EAR WEIGHT (Both Combined)**

1. Weight of ears in sealed bags .....	<b>Grams to Hundredths</b>	501 . ____
2. Weight of same number of new bags and rubber bands .....	<b>Grams to Hundredths</b>	502 . ____

**GRAIN WEIGHT and MOISTURE DETERMINATIONS**

Shell grain from all ears. If ears are too wet to shell easily, dry them for a short period at no more than 70 degrees C before shelling.

3. Weight of all grain shelled from ears at time of moisture test .....	<b>Grams to Hundredths</b>	507 . ____
4. Moisture content of shelled grain .....	<b>Percent (One Decimal)</b>	508 . ____
5. Approximate density of shelled grain .....	<b>Pounds/Bushel (One Decimal)</b>	509 . ____

6. Was the grain used for the moisture determination oven dried and/or wetted to enable processing of the sample?

**YES** – Enter code from below.       **NO** – Enter code 4.....

510
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**1 = Sample was oven dried only**  
**2 = Sample was wetted only**  
**3 = Sample was oven dried AND wetted**

Lab Technician \_\_\_\_\_ Date Analyzed \_\_\_\_\_

MM DD

**FORM C-2: CORN**

*If the sample weight is too small for moisture test, sufficient grains of known moisture content (use same class and stage of maturity) will be added to the sample so that a moisture test can be made. The moisture content of the sample can then be derived using the following formula:*

$$E = \frac{(A + B) D - (B \times C)}{A}$$

<b>Where</b>	<b>A = Weight of small corn sample</b> .....	. ____	<b>Grams</b>
	<b>B = Weight of additional grain required for moisture test</b> .....	. ____	<b>Grams</b>
	<b>C = Moisture percent of B</b> .....	. ____	<b>Percent</b>
	<b>D = Moisture percent of A + B combined</b> .....	. ____	<b>Percent</b>
	<b>E = Result : Moisture percent of small corn sample</b> (enter in item 4) .....	. ____	<b>Percent</b>