



FORM C-2
CORN FINAL PRE-HARVEST LAB
DETERMINATIONS
2018



NATIONAL
AGRICULTURAL
STATISTICS
SERVICE

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

EAR WEIGHT (Both Combined)

- 1. Weight of ears in sealed bags
2. Weight of same number of new bags and rubber bands

Table with 2 columns: Label (Grams to Hundredths), Value (501, 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
4. Moisture content of shelled grain
5. Approximate density of shelled grain
6. Was the grain used for the moisture determination oven dried and/or wetted to enable processing of the sample?

Table with 2 columns: Label (Grams to Hundredths, Percent, Pounds/Bushel), Value (507, 508, 509)

YES - Enter code from below. NO - Enter code 4...

510

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>