# FORM C 2  CORN OBJECTIVE YIELD -  2023

**USDA**  **United States Department of Agriculture**

**NATIONAL AGRICULTURAL STATISTICS SERVICE**

Date sample received in lab: _____

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**EAR WEIGHT** (Both Combined)

1. Weight of ears in sealed bags ..................................................................... **Grams to Hundredths**  | 501    . __ __ |

2. Weight of same number of new bags and rubber bands ................................... **Grams to Hundredths** | 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............................. **Grams to Hundredths** | 507    . __ __ |

4. Moisture content of shelled grain ........................................................... **Percent** (One Decimal) | 508    . __ |

5. Approximate density of shelled grain ................................................... **Pounds/Bushel** (One  Decimal) | 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 |

> **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:

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

**Where**   **A = Weight of small corn sample.**............................................................  . \_\_ \_\_  **Grams**

       **B = Weight of additional grain required for moisture test.**...................  . \_\_ \_\_  **Grams**

       **C = Moisture percent of B** .......................................................................  . \_\_  **Percent**

       **D = Moisture percent of A + B combined**.............................................  . \_\_  **Percent**

       **E = Result : Moisture percent of small corn sample**
       (enter in item 4)..................................................................................  . \_\_  **Percent**