|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Project Code 104 QID 120032C-2 | | OMB No. 0535-0088: Approval Expires 7/31/2018 | | |
| **SURVEY_LOGO_1:USDA_logo_bw.gif** | **FORM C–2**  **CORN FINAL PRE-HARVEST LAB DETERMINATIONS**  **2018** | | http://nassnet/miso/PRIME_Center/Communication_Guidelines/Official_Logos/NASS%20Graphic/nass_logo_bw.gif | **NATIONAL**  **AGRICULTURAL STATISTICS**  **SERVICE** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |
|  |
|  |
|  |  |
|  |
|  |  |  |  |  |  |  |  |
|  |  |  | **Date Sample Received in Lab:** | |  | | |
|  |  |  |  | |  | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| **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 =** | **( A + B ) D - ( B x 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** |  |

|  |
| --- |
|  |