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| Project Code 104 QID 120032C-1 | | OMB No. 0535-0088: Approval Expires 4/30/2015 | | |
| **SURVEY_LOGO_1:USDA_logo_bw.gif** | **FORM C–1**  **Corn Maturity Code-6 Lab Determinations**  **2015** | | http://nassnet/miso/PRIME_Center/Communication_Guidelines/Official_Logos/NASS%20Graphic/nass_logo_bw.gif | **NATIONAL**  **AGRICULTURAL STATISTICS**  **SERVICE** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | YEAR, CROP, FORM, MMDD  (1 – 7) |  |  |  |  |  |  |
|  |
|  |
|  | **5 4 4** \_\_\_\_ \_\_\_\_ \_\_\_\_ \_\_\_\_ |
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|  |  |  |  |  |  |  |  |
|  |  |  | **Date Sample Received in Lab:** | |  | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EAR WEIGHT** | | | | | | |  |  | |
| 1. Weight of third and fourth ears and loose kernels . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | **Grams to Hundredths** | 401 | **. \_\_\_ \_\_\_** |
| 2. Weight of remaining ears and loose kernels . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | **Grams to Hundredths** | 402 | **. \_\_\_ \_\_\_** |
| **GRAIN WEIGHT and MOISTURE DETERMINATIONS** | | | | | | |  |  | |
|  | | | | | | |  |  | |
| Shell grain from the third and fourth 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 the third and fourth ears at time of moisture test . . . . | | | | | | | **Grams to Hundredths** | 404 | **. \_\_\_ \_\_\_** |
| 4. Moisture content of shelled grain . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | **Percent** (One Decimal) | | | 405 | **. \_\_\_\_** |
| ***For small samples, use the formula on the back of this form for moisture percent*** | | | | | | | |  | |
| 5. 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*.. . . . . . . . . . . . . . . . . . . . . . . . . . . . | | | | | | | | 410 | |
|  | | | | | | | | | |
|  | **1 = Sample was oven dried only**  **2 = Sample was wetted only**  **3 = Sample was oven dried AND wetted** | |  | | |  | |  | |
|  |  | | |  | |  | |
|  | | | | | |  | |  | |
| Lab Technician | |  | | Date Analyzed | |  | | | |
|  | |  | | | | MM DD | | | |

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| **FORM C-1: CORN** |  |

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| *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** |  |

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