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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** |

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| --- | --- | --- | --- | --- | --- | --- | --- |
|  | YEAR, CROP, FORM, MMDD(1 – 7) |  |  |  |  |  |  |
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|  |
|  | **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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