FORM C - 1
Corn Maturity Code-6 Lab Determinations
2008

NATIONAL AGRICULTURAL STATISTICS SERVICE

YEAR, CROP, FORM, MMDD (1 – 7)	
8 4 4 ___ ___ ___ ___	

Date Sample Received in Lab: _____

EAR WEIGHT

1. Weight of third and fourth ears and loose kernels . . . . . **Grams to Tenths** 401 . ___

2. Weight of remaining ears and loose kernels . . . . . **Grams to Tenths** 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 Tenths** 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

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**